July 27, 2010

Mr. Dan McCaskill, CIH
BNSF Railway Company
2600 Lou Menk Drive
Fort Worth, TX 76161

Re: BNSF Asbestos Exposure Sampling Report
BNSF Kootenai River Subdivision- Mileposts 1307 to 1341
EPA Operable Unit 6
March 29-April 8, 2010
EMR Project No. 9329-001

Dear Mr. McCaskill:

EMR, Inc. (EMR) was contracted by the BNSF Railway Company (BNSF) to conduct Asbestos Exposure Sampling on two BNSF Rail Gangs conducting rail and other track component replacement. The primary purpose of this Asbestos Exposure Sampling event was to gather sufficient and representative air quality data to determine whether asbestos fiber releases were being created by track maintenance activities. This data allows BNSF Industrial Hygiene to determine worker exposure risk and whether current engineering controls and prescribed personal protective equipment are sufficient to protect BNSF workers. A secondary function of this sampling event was to collect air quality data from near the BNSF property boundary (stationary air samples). In the event that maintenance activities did create a fiber release, this data would be used to determine whether the release could impact off-site receptors.

The maintenance work and associated sampling occurred along select portions of the BNSF right-of-way located between BNSF Milepost (MP) 1308.5 and MP 1344 from March 29th through April 8th. These locations are within the United States Environmental Protection Agency (EPA)-defined Operable Unit 6 (OU6). OU6 is the designation for BNSF-owned property that may have been impacted by the loading and hauling of asbestos contaminated vermiculite. OU6 is roughly centered on Libby, Montana (MP 1319.5) and extends east to approximately MP 1301 and west to approximately MP 1341 (Figure 1).

Potential worker hazards within OU6 consist of the possible disturbance of previously-deposited tremolite and related mineral fibers during rail maintenance activities. Asbestos fibers within the track structure are associated with rail transport of W.R. Grace vermiculite ore or processed Zonolite shipped on this line through approximately 1990, the date of the mine closure.

ON-SITE PERSONNEL

A two person team consisting of EMR employees Mike McKay and Amanda Thornton were mobilized to the Site to conduct the sampling effort. The focus of the sampling activities was BNSF Rail Gangs, designated RP-11 and RP-21, that were conducting routine track component replacement within OU6. Each gang consisted of approximately 30 BNSF personnel and approximately 20 on-track machines. No EPA or CDM personnel were present at any time during sampling activities.

SAMPLING OVERVIEW

EMR mobilized to Libby, Montana on March 28, 2010 to conduct sampling from March 29 through April 1 and April 5 through April 8, 2010 that encompassed all work conducted by both RP-11 and RP-21 during their time in OU6. Sampling consisted of the daily collection of two (2) types of samples from each gang; 1) personal air samples, and 2) stationary air samples.

Five (5) personal air samples were collected from a mixture of machine operators and laborers. Every attempt was made to collect a representative cross section of personnel during each sampling day to assess conditions for workers at various positions throughout the gangs.

Two (2) stationary air samples were collected from within the maintenance area to assess ambient air quality during the entire work cycle. In order to capture the complete work cycle stationary sample collection began prior to the arrival of the first machine and continued until the last machine had passed the sampling location. The stationary air samples were positioned according to the following criteria (in order of preference);

- between the maintenance area and any possible public receptors (residence, park, etc) or;
- downwind of the maintenance area (when potential public receptors were not present)

The methods and equipment used to collect these both the personal and stationary samples are discussed below.

SAMPLING METHODS AND EQUIPMENT

Personal Air Sample Collection

The personal air sampling program utilized Gillian BDX II personal air pumps with starting flow rates set at 2.0 L/m. Flow rates were checked at the beginning and end of the sampling period with a calibrated rotameter. The pumps were equipped with Zefon 25mm Phase Contrast Microscopy (PCM) cassettes and 0.8 µm Mixed Cellulose Ester (MCE) filters, which were utilized for analysis by Transmission Electron Microscopy (TEM) and Asbestos Hazard Emergency Response Act (AHERA) methods. All samples were submitted for AHERA TEM analysis by EMSL Analytical Inc.'s (EMSL) Libby, Montana laboratory. A total of 65 personal air samples were collected during the sampling event (Table 1).

Stationary Air Sample Collection

Stationary air samples were collected each sampling day to evaluate ambient air quality adjacent to the maintenance area. The objective of the stationary sampling was to evaluate the air quality at two distinct locations throughout the entire maintenance cycle.

Stationary air samples were collected using EMS Megalite high-volume air pumps equipped with Zefon 25mm PCM cassettes with 0.8 µm MCE filters. The high volume air pumps were powered by portable generators. The filters were suspended approximately four (4) feet above ground surface with the filter opening facing downward to prevent the deposition of foreign material on the filter. Both stationary samples were collected within approximately 100 feet of each other and approximately 25 feet from the mainline. Both samples were collected from the same side of the main line and located according to the above-listed criteria.

Stationary air pumps were checked and adjusted daily to achieve flow rates between 8 and 8.5 L/m as determined with a calibrated rotameter. All stationary air samples were submitted to EMSL for AHERA TEM analysis.

Blank Collection

An open control blank was collected for each gang on each day of sampling. The blanks were collected by opening and resealing the filter cassette under normal sampling conditions. All blanks were submitted to EMSL for TEM analysis. Additionally, closed blanks were collected but were not submitted for analysis.

Laboratory Methods

AHERA TEM analytical methods were chosen since they are widely applied to determine compliance with the OSHA Permissible Exposure Limit (PEL). The AHERA TEM method simply counts the number of fibers in known sample area that are greater than 5µm in length and through visual inspection at a magnification of 20,000. As per 40 CFR Chapter I – Part 763, acceptable sensitivity for this method is no greater than 0.005 s/cc.

Due to adverse weather conditions, five (5) sample filters were damaged and were not able to be analyzed by the laboratory (Table 1).

Due to variable levels of filter loading, several samples required indirect preparation to facilitate TEM analysis. Indirect preparation methods were employed on nine (9) samples (Table 1). A brief description of indirect preparation process is described below.

Indirect Preparation

- Sample resuspended in 100mL particle water
- Fractions filtered (10, 15, 25 and 50mL) on 0.2 µm filter backed by 5.0 µm filter.
- Selected volume processed to grids

It should be noted that indirect preparation methods require dilution that results in an increase of analytical sensitivity.

Sample Identification

Each laboratory sample was assigned a unique sample identification that consisted of the sample type (P = Personal, S = Stationary), the initials of the sampled person (personal samples) or the approximate milepost for stationary samples and the date of sample collection. For example, P-NS-032910, designates a personal sample collected from Niles Singer on March 29, 2010.

DAILY ACTIVITY

The following is a daily summary of sampling activities for RP-11 and RP-22. Following the body of the report are site location maps, photolog of work activities (Attachment A), air monitoring data sheets with PCM air monitoring results (Attachment B), and complete laboratory reports and chain of custody forms from EMSL (Attachment C).

RP-11

March 29, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1338.7 and MP 1339.4 (Figure 1):

Niles Singer	Assistant Foreman
Russ Lemanyun	Sectionman
Chris Bradford	Truck Driver
Jermel Brown	Cribber/Adzer Operator
Brant Wisenburger	Laborer

The sample collected from Chris Bradford was damaged and was not able to analyzed.

Two stationary air samples were collected at approximately MP 1339.

March 30, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1335.1 and MP 1338.1 (Figure 1):

Chris Bradford	Truck Driver
Niles Singer	Assistant Foreman
Brant Wisenburger	Truck Driver
Jermel Brown	Cribber/Adzer Operator
Russ Lemanyun	Sectionman

Two stationary air samples were collected at approximately MP 1338.

March 31, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1331.8 and MP 1332.5 (Figure 1):

Troy Webster	Pregauger Operator
Lynnard Spiry	Assistant Foreman
Thomas Swift	Rail Heater Operator
Jermel Brown	Cribber/Adzer Operator
Kasey Kerwin	Laborer

Two stationary air samples were collected at approximately MP 1332.

April 1, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1324.5 and MP 1330 (Figure 1):

Brant Wisenburger	Truck Driver
Jermel Brown	Cribber/Adzer Operator
Niles Singer	Assistant Foreman

Kasey Kerwin	Laborer
Chris Bradford	Truck Driver

Two stationary air samples were collected at approximately MP 1329.7.

April 5, 2010
Five personal air samples were collected from the following BNSF personnel during their work between MP 1310.8 and MP 1311.6 (Figure 1):

Niles Singer	Assistant Foreman
Brant Wisenburger	Laborer
Troy Webster	Pregauger Operator
Jermel Brown	Cribber/Adzer Operator
Thomas Swift	Rail Heater

The samples collected from Brant Wisenburger and Tyler Annala were damaged and not able to be analyzed.

Two stationary air samples were collected at approximately MP 1311.

April 6, 2010
Five personal air samples were collected from the following BNSF personnel during their work between MP 1308.7 and MP 1309.5 (Figure 1):

Brant Wisenburger	Clipper Operator
Jermel Brown	Cribber/Adzer Operator
Niles Singer	Assistant Foreman
Chris Bradford	Truck Driver
Tyler Annala	SARS Machine Operator

Two stationary air samples were collected at approximately MP 1311.

Sampling of RP-11 concluded on April 6 after all scheduled maintenance was completed within OU6.

RP-21

March 29, 2010
No sampling was conducted on RP-21 since no maintenance was conducted within OU6.

March 30, 2010
Five personal air samples were collected from the following BNSF personnel during their work between MP 1340 and MP 1344 (Figure 1):

Ron Hayes	Sectionman
John Hobbs	Sectionman
Brian Gartman	Group 5 Operator
Randy Finley	Group 5 Operator
Trevor Beers	Plugger Operator

Stationary air samples were collected at approximately MP 1341.8 and MP 1342.

March 31, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1338 and MP 1340 (Figure 1):

Eric Hofpar	Machine Operator
John Hobbs	Sectionman
Clinton Combs	Assistant Foreman
Carson Poore	Trackman
Andrew Smith	Grinder

The sample collected from Eric Hofpar was damaged and was not able to analyzed.

Stationary air samples were collected at approximately MP 1341.8 and MP 1342.

April 1, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1331.8 and MP 1332.5 (Figure 1):

Trevor Beers	Tie Plugger Operator
John Hobbs	Sectionman
Ron Hayes	Sectionman
Allen Gehrke	Foreman
Brian Albro	Truck Driver

Stationary air samples were collected at approximately MP 1332.0 and MP 1332.1.

April 5, 2010

Five personal air samples were collected from the following BNSF personnel during their work between MP 1330 and MP 1332 (Figure 1):

Tony Cox	Group 5 Operator
Andrew Smith	Grinder Operator
Doug Throop	Laborer
Carson Poore	Trackman
Randy Finley	Group 5 Operator

Stationary air samples were collected at approximately MP 1324.0 and MP 1324.1. It should be noted that the stationary air samples were collected outside of the work area, due changes in the planned work that were not communicated to EMR.

April 6, 2010
Five personal air samples were collected from the following BNSF personnel during their work between MP 1322.06 and MP 1322.38 (Figure 1):

Trevor Beers	Plugger Operator
Carson Poore	Trackman
Sean Hunter	Machine Operator
Randy Finley	Group 5
Ryan Tucker	Welder

Stationary air samples were collected at approximately MP 1322.06 and MP 1322.07.

April 7, 2010
Five personal air samples were collected from the following BNSF personnel during their work between MP 1310.8 and MP 1311.6 (Figure 1):

Tony Cox	Group 5 Operator
Sean Hunter	Machine Operator
Mike O'Leary	Laborer
Eric Hofpar	Machine Operator
John Hobbs	Sectionman

The sample collected from Eric Hofpar was damaged and was not able to analyzed.

Stationary air samples were collected at approximately MP 1310.6 and MP 1310.7.

April 8, 2010
Five personal air samples were collected from the following BNSF personnel during their work between MP 1308.5 and MP 1308.9 (Figure 1):

John Hobbs	Sectionman
Ron Hayes	Sectionman
Carson Poore	Trackman
Ryan Tucker	Welder
Brian Gartman	Group 5 Operator

Stationary air samples were collected at approximately MP 1310.6 and MP 1310.7.

Sampling of RP-21 concluded on April 8 after all scheduled maintenance was completed within OU6.

SAMPLING RESULTS
The following is a discussion of the results of laboratory analysis of each sample type. Laboratory reports and chain-of-custody forms are found in Attachment C.

Personal Air Samples
A total of 60 personal air samples were collected and submitted for TEM analysis. All samples were non-detect for asbestos fibers (Table 1). Of the 60 samples, ten (10)

samples were indirectly prepared and the remaining samples were prepared directly. The target sensitivity (0.005 s/cc) was met on all samples, excluding indirectly prepared samples.

Stationary Air Samples

A total of 26 stationary air samples were collected and analyzed. All samples were non-detect for asbestos fibers (Table 1). All sample met the target sensitivity.

Blanks

A total of 13 control blanks were submitted for TEM analysis. All blanks were non-detect for asbestos (Table 1).

EMR sincerely appreciates the opportunity to assist you on this project. If you have any questions, please call me at (218) 625-2331.

Sincerely,
EMR, Inc.,

Scott Carney PG, CHMM
Project Manager

Att: Table 1
Figure 1
Attachment A – Project Photolog
Attachment B – Air Monitoring Data Sheets
Attachment C – EMSL Laboratory Reports and Chain of Custody Forms

TABLES

Table 1. Summary of Air Sampling Results
BNSF Tie Gangs RP-11/RP-21
BNSF Kootenai River Subdivision
March 29 - April 8, 2010
EMR Project #9329-001

Sample ID	Sample Date	Sampler	Analysis Date	Laboratory	Analytical Method	Volume (L)	Sensitivity (S/cc)	Results (S/cc)	Personnel Name	BNSF Employee #	Task	Milepost	Preparation D/A/IA
P-NS-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	844	0.0044	ND	Niles Singer	7334600	Asst. Foreman	1338.7-1339.4	D
P-RL-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	843	0.0330	ND	Russ Lemanyun	1751890	Sectionman	1338.7-1339.4	ID
P-CB-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	849	--	NA-FD	Chris Bradford	1751909	Truck Driver	1338.7-1339.4	--
P-JB-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	841	0.0044	ND	Jermel Brown	1749712	Cribber/Adzer	1338.7-1339.4	D
P-BW-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	838	0.0044	ND	Brant Wisenburger	1791193	Laborer	1338.7-1339.4	D
S-1338W-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	3,126	0.0024	ND	NA	NA	NA	1339	D
S-1338E-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	3,126	0.0044	ND	NA	NA	NA	1339	D
CB-OPEN-032910	3/29/2010	ATD	4/19/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D
P-CB-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	1,239	0.1500	ND	Chris Bradford	1751908	Truck Driver	1335.1-1338.1	ID
P-NS-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	1,064	0.0046	ND	Niles Singer	7334600	Asst. Foreman	1335.1-1338.1	D
P-BW-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	1,036	0.0048	ND	Brant Wisenburger	1791133	Truck Driver	1335.1-1338.1	D
P-JB-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	1,050	0.0047	ND	Jermel Brown	1749712	Cribber/Adzer	1335.1-1338.1	D
P-RL-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	1,141	0.1500	ND	Russ Lemanyun	1751890	Sectionman	1335.1-1338.1	ID
S-1338W-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	2,100	0.0035	ND	NA	NA	NA	1338	D
S-1338E-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	2,100	0.0035	ND	NA	NA	NA	1338	D
CB-OPEN-033010	3/30/2010	ATD	4/16/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D
P-RH-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	732	0.004	ND	Ron Hayes	1776343	Sectionman	1340-1344	D
P-JH-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	730	0.0041	ND	John Hobbs	1775048	Sectionman	1340-1344	D
P-BG-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	722	0.0041	ND	Brian Gartman	1791078	Group 5	1340-1344	D
P-RF-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	728	0.0037	ND	Randy Finley	1714914	Group 5	1340-1344	D
P-TB-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	748	0.004	ND	Trevor Beers	1660828	Plugger	1340-1344	D
S-1341.8W033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	2,135	0.0035	ND	NA	NA	NA	1341.8	D
S-1342E033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	2,128	0.0035	ND	NA	NA	NA	1342	D
BK-033010	3/30/2010	MMC	4/2/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D
P-TW-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	732	0.0040	ND	Troy Webster	1776350	Pregauger Operator	1331.8-1332.5	D
P-LS-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	730	0.0041	ND	Lynnard Spiry	1620079	Asst. Foreman	1331.8-1332.5	D
P-TS-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	722	0.0041	ND	Thomas Swift	1782010	Rail Heater	1331.8-1332.5	D
P-JB-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	728	0.0037	ND	Jermel Brown	1749712	Cribber/Adzer	1331.8-1332.5	D
P-KK-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	748	0.0040	ND	Kasey Kerwin	1720192	Laborer	1331.8-1332.5	D
S-1332W-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	2,135	0.0035	ND	NA	NA	NA	1332	D
S-1332E-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	2,135	0.0035	ND	NA	NA	NA	1332	D
CB-OPEN-033110	3/31/2010	ATD	4/2/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D
P-EH-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	926	--	NA-FD	Eric Hofpar	1748573	Machine Operator	1338-1340	--
P-JH-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	918	0.0046	ND	John Hobbs	1775048	Sectionman	1338-1340	D
P-CC-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	912	0.0046	ND	Clinton Combs	1746768	Asst. Foreman	1338-1340	D
P-CP-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	912	0.0046	ND	Carson Poore	1782028	Trackman	1338-1340	D
P-AS-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	914	0.0046	ND	Andrew Smith	1790633	Grinder	1338-1340	D
S-1339.3W033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	2,170	0.0034	ND	NA	NA	NA	1339.3	D
S-1339.4E033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	2,170	0.0034	ND	NA	NA	NA	1339.4	D
BK-033110	3/31/2010	MMC	4/2/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D

Table 1. Summary of Air Sampling Results
BNSF Tie Gangs RP-11/RP-21
BNSF Kootenai River Subdivision
March 29 - April 8, 2010
EMR Project #9329-001

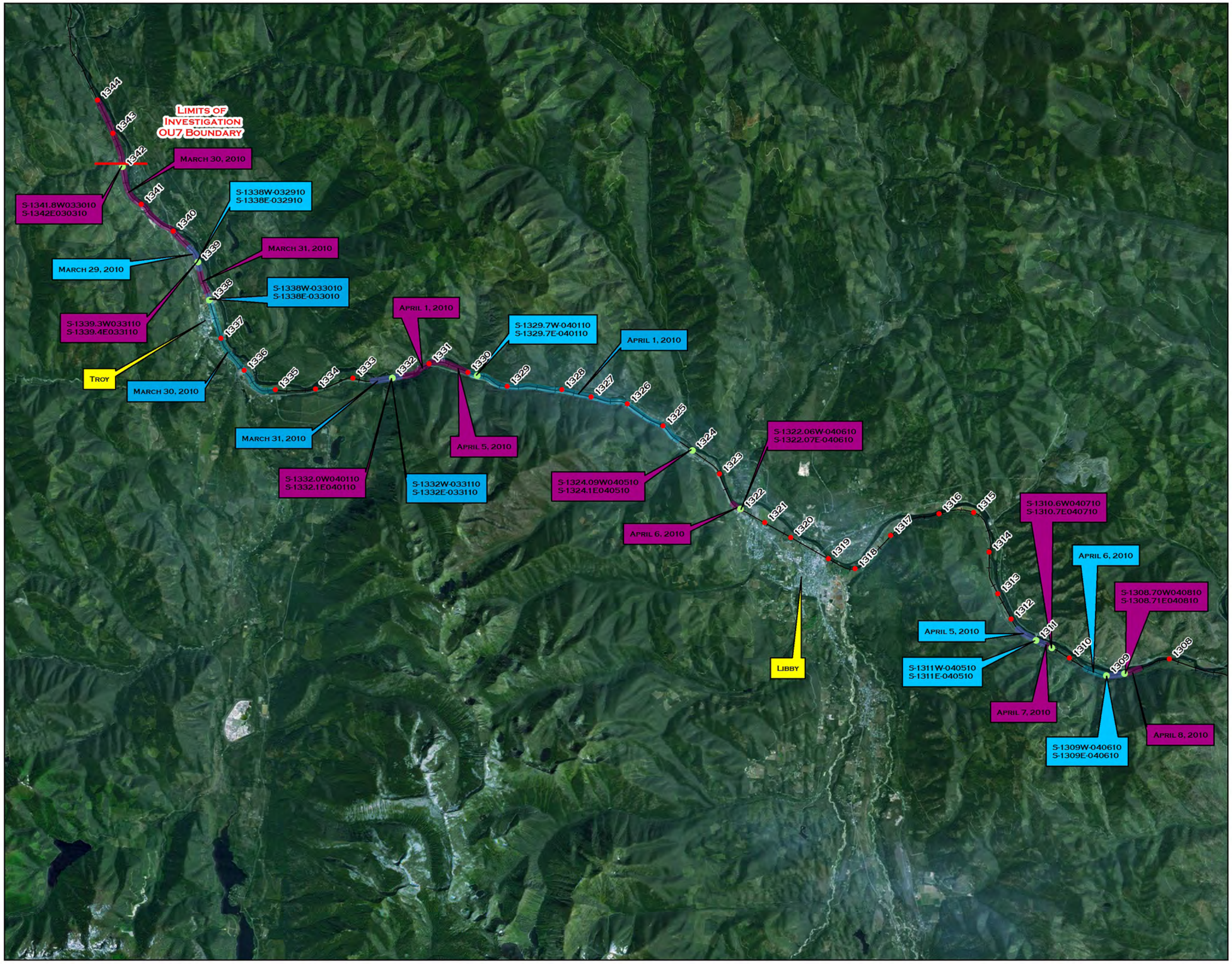
Sample ID	Sample Date	Sampler	Analysis Date	Laboratory	Analytical Method	Volume (L)	Sensitivity (S/cc)	Results (S/cc)	Personnel Name	BNSF Employee #	Task	Milepost	Preparation D/A/IA
P-BW-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	725	0.0045	ND	Brant Wisenburger	1791193	Truck Driver	1324.5-1330.0	D
P-JB-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	825	0.0045	ND	Jermel Brown	1749712	Cribber/Adzer	1324.5-1330.0	D
P-NS-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	809	0.0046	ND	Niles Singer	7334600	Asst. Foreman	1324.5-1330.0	D
P-KK-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	713	0.0046	ND	Kasey Kerwin	1720192	Laborer	1324.5-1330.0	D
P-CB-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	631	0.0047	ND	Chris Bradford	1751908	Truck Driver	1324.5-1330.0	D
S-1329.7W-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	2,225	0.0033	ND	NA	NA	NA	1329.7	D
S-1329.7E-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	2,225	0.0033	ND	NA	NA	NA	1329.7	D
CB-OPEN-040110	4/1/2010	ATD	4/20/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D
P-TB-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	940	0.0045	ND	Trevor Beers	1660828	Tie Plugger	1331.8-1332.5	D
P-JH-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	912	0.0046	ND	John Hobbs	1775048	Sectionman	1331.8-1332.5	D
P-RH-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	914	0.0046	ND	Ron Hayes	1776343	Sectionman	1331.8-1332.5	D
P-AG-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	918	0.0046	ND	Allen Gehrke	2090806	Foreman	1331.8-1332.5	D
P-BA-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	936	0.0045	ND	Brian Albro	7460306	Truck Driver	1331.8-1332.5	D
S-1332.0W040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	2,380	0.0031	ND	NA	NA	NA	1332.0	D
S-1332.1E040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	2,394	0.0031	ND	NA	NA	NA	1332.1	D
BK-040110	4/1/2010	MMC	4/15/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D
P-NS-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	969	0.0290	ND	Niles Singer	7334600	Asst. Foreman	1310.8-1311.6	ID
P-BW-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	973	0.0110	ND	Brant Wisenburger	1791193	Laborer	1310.8-1311.6	ID
P-TW-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	975	0.0043	ND	Troy Webster	1776350	Pregauger Operator	1310.8-1311.6	D
P-JB-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	974	0.0043	ND	Jermel Brown	1749712	Cribber/Adzer	1310.8-1311.6	D
P-TS-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	968	0.0044	ND	Thomas Swift	1782010	Rail Heater	1310.8-1311.6	D
S-1311W-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	2,250	0.0033	ND	NA	NA	NA	1311	D
S-1311E-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	2,250	0.0033	ND	NA	NA	NA	1311	D
CB-OPEN-040510	4/5/2010	ATD	4/16/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D
P-TC-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	860	0.0049	ND	Tony Cox	1750249	Group 5	1330-1332	D
P-AS-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	924	0.0046	ND	Andrew Smith	1790633	Grinder	1330-1332	D
P-DT-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	894	0.0047	ND	Doug Throop	7351133	Laborer	1330-1332	D
P-CP-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	858	0.0049	ND	Carson Poore	1782028	Trackman	1330-1332	D
P-RF-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	916	0.0046	ND	Randy Finley	1714914	Group 5	1330-1332	D
S-1324-09W040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	2,772	0.0027	ND	NA	NA	NA	1324.0	D
S-1324.1E040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	2,765	0.0027	ND	NA	NA	NA	1324.1	D
BK-040510	4/5/2010	MMC	4/15/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D
P-TB-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	624	0.0047	ND	Trevor Beers	1660828	Plugger	1322.06-1322.38	D
P-CP-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	760	0.0049	ND	Carson Poore	1782028	Trackman	1322.06-1322.38	D
P-SH-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	758	0.0049	ND	Sean Hunter	1767029	Machine Operator	1322.06-1322.38	D
P-RF-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	776	0.0048	ND	Randy Finley	1714914	Group 5	1322.06-1322.38	D
P-RT-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	788	0.0350	ND	Ryan Tucker	1773621	Welder	1322.06-1322.38	ID
S-1322.06W-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	2,226	0.0033	ND	NA	NA	NA	1322.06	D
S-1322.07E-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	2,212	0.0033	ND	NA	NA	NA	1322.07	D
BK-040610	4/6/2010	MMC	4/22/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D

Table 1. Summary of Air Sampling Results
BNSF Tie Gangs RP-11/RP-21
BNSF Kootenai River Subdivision
March 29 - April 8, 2010
EMR Project #9329-001

Sample ID	Sample Date	Sampler	Analysis Date	Laboratory	Analytical Method	Volume (L)	Sensitivity (S/cc)	Results (S/cc)	Personnel Name	BNSF Employee #	Task	Milepost	Preparation D/A/IA
P-BW-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	870	--	NA-FD	Brant Wisenburger	1791193	Clipper Operator	1308.7-1309.5	--
P-JB-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	884	0.0048	ND	Jermel Brown	1749712	Cribber/Adzer	1308.7-1309.5	D
P-NS-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	872	0.0049	ND	Niles Singer	7334600	Asst. Foreman	1308.7-1309.5	D
P-CB-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	864	0.2100	ND	Chris Bradford	1751908	Truck Driver	1308.7-1309.5	ID
P-TA-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	865	--	NA-FD	Tyler Annala	1790401	SARS Machine Op.	1308.7-1309.5	--
S-1309W-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	1,806	0.0041	ND	NA	NA	NA	1309	D
S-1309E-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	1,816	0.0040	ND	NA	NA	NA	1309	D
CB-OPEN-040610	4/6/2010	ATD	4/16/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D
P-TC-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	934	0.0045	ND	Tony Cox	1750249	Group 5	1310.8-1311.6	D
P-SH-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	854	0.005	ND	Sean Hunter	1767029	Machine Operator	1310.8-1311.6	D
P-MO-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	864	0.013	ND	Mike O'Leary	1145937	Laborer	1310.8-1311.6	ID
P-EH-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	856	NA	NA-FD	Eric Hofpar	1748573	Machine Operator	1310.8-1311.6	--
P-JH-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	864	0.0064	ND	John Hobbs	1775048	Sectionman	1310.8-1311.6	ID
S-1310.6W040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	2,422	0.0031	ND	NA	NA	NA	1310.6	D
S-1310.7E040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	2,422	0.0031	ND	NA	NA	NA	1310.7	D
BK-040710	4/7/2010	MMC	4/21/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D
P-JH-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	744	0.005	ND	John Hobbs	1775048	Sectionman	1308.5-1308.9	D
P-RH-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	740	0.0044	ND	Ron Hayes	1776343	Sectionman	1308.5-1308.9	D
P-CP-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	742	0.005	ND	Carson Poore	1782028	Trackman	1308.5-1308.9	D
P-RT-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	744	0.0150	ND	Ryan Tucker	1773621	Welder	1308.5-1308.9	ID
P-BG-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	732	0.0045	ND	Brian Gartman	1791078	Group 5	1308.5-1308.9	D
S-1308.70W040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	3,080	0.0024	ND	NA	NA	NA	1308.70	D
S-1308.71E040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	3,080	0.0024	ND	NA	NA	NA	1308.71	D
BK-040810	4/8/2010	MMC	4/22/2010	EMSL	AHERA	NA	--	ND	Control Blank - Open	NA	NA	NA	D

Preparation Notes: D = Direct Preparation, I = Indirect,
ND - Not Detected
NA - Not Applicable
NAD - Not Analyzed - Filter Damaged

FIGURES



N
W E
S

Figure 1
Sampling Area
Overview Map

EPA Operable Unit 6
BNSF Kootenai River Sub
Mile Post 1307 - 1341

--

BNSF Asbestos
Exposure Sampling Report

Legend

- Approximate Milepost Locations
- 2010 Stationary Sample Location
- BNSF Railway
- 2010 RP-11 Work Area
- 2010 RP-21 Work Area

0 6,000 12,000 24,000
Scale In Feet

0 1 2
Scale In Miles

Project Number: 9329-001
Date: June 30, 2010
Drafted By: KLA
Reviewed By: SJC
Reference: ESRI World Imagery

EMR INCORPORATED
INFRASTRUCTURE AND ENVIRONMENT
11 E. Superior St. Suite #260
Duluth, MN 55802
Phone: 218.625.2332
Fax:218.625.2337

ATTACHMENT A

Project Photolog

Site Name: BNSF Kootenai River Sub | **Site Location:** Libby, Montana Area
Date: March 31, 2010 | **Project No.:** 9329-001

Photo No.1. Overview of typical stationary air sample collection point at West Troy.

Photo No. 2 Typical stationary air sample collection point at West Kootenai Falls.

Site Name: BNSF Kootenai River Sub | **Site Location:** Libby, Montana Area
Date: April 1, 2010 | **Project No.:** 9329-001

Photo No.3. View of BNSF laborer in PPE. Note sample cassette on his left shoulder.

Photo No. 4 View of BNSF machine operator in full PPE.

Site Name: BNSF Kootenai River Sub | **Site Location:** Libby, Montana Area
Date: April 1, 2010 | **Project No.:** 9329-001

Photo No.5. View of BNSF cribber/adzer working at Kootenai Falls.

Photo No. 6 Overview of RP-11 at Ripley. Note that all personnel are in correct PPE.

ATTACHMENT B

Air Monitoring Data Sheets

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 3/30/10 Work Area Mileposts: 1344D - 1340B

Sampled Person's Name:	Ron Hayes
BNSF Employee ID	1776343
Job Title	Section Man
Machine Type/Name	Labor
Pump Number	P-1
Sample #	P-RH-033010
Starting Flow Rate	2.0
Sample Start Time	08:01
Ending Flow Rate	2.0
Sample End Time	14:07
Sample Volume	732

Sampled Person's Name:	JohnHobbs
BNSF Employee ID	1775048
Job Title	Section Man
Machine Type/Name	Labor
Pump Number	P-2
Sample #	P-JH-033010
Starting Flow Rate	2.0
Sample Start Time	08:04
Ending Flow Rate	2.0
Sample End Time	14:09
Sample Volume	730

Sampled Person's Name:	Brian Gartman
BNSF Employee ID	1791078
Job Title	Group 5
Machine Type/Name	Blower
Pump Number	P-3
Sample #	P-BG-033010
Starting Flow Rate	2.0
Sample Start Time	08:05
Ending Flow Rate	2.0
Sample End Time	14:06
Sample Volume	722

Sampled Person's Name:	Randy Finley
BNSF Employee ID	1714914
Job Title	Group 5
Machine Type/Name	Labor
Pump Number	P-4
Sample #	P-RF-033010
Starting Flow Rate	2.0
Sample Start Time	08:06
Ending Flow Rate	2.0
Sample End Time	14:10
Sample Volume	728

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 3/30/10 Work Area Mileposts: 1344D - 1340B

Sampled Person's Name:	Trevor Beers
BNSF Employee ID	1660828
Job Title	Plugger
Machine Type/Name	Plugger
Pump Number	P-5
Sample #	P-TB-033010
Starting Flow Rate	2.0
Sample Start Time	07:59
Ending Flow Rate	2.0
Sample End Time	14:13
Sample Volume	748

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 3/30/10 Work Area Mileposts: 13440 - 1340B

Approx MP of Sample Location	1341.8
GPS Coords	N 48.51740 W 115.94685
Receptor Present?	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-1
Sample # 1	S-1341.8 W033010
Starting Flow Rate	7.0
Sample Start Time	08:55
Ending Flow Rate	7.0
Sample End Time	14:00
Sample Volume	2135

Approx MP of Sample Location	1342
GPS Coords	N 48.51740 W 115.94685
Receptor Present	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-2
Sample # 2	S-1342 E 033010
Starting Flow Rate	7.0
Sample Start Time	08:57
Ending Flow Rate	7.0
Sample End Time	14:01
Sample Volume	2128

Approx MP of Sample Location	
GPS Coords	N W
Receptor Present	Y / N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 3/31/10 Work Area Mileposts: 1340B-1338T

Sampled Person's Name:	Eric Hofpar
BNSF Employee ID	1748573
Job Title	Machine Operator
Machine Type/Name	Rail Heater
Pump Number	P-1
Sample #	P-EH-033110
Starting Flow Rate	2.0
Sample Start Time	07:57
Ending Flow Rate	2.0
Sample End Time	15:40
Sample Volume	926

Sampled Person's Name:	John Hobbs
BNSF Employee ID	1775048
Job Title	Section Man
Machine Type/Name	Labor
Pump Number	P-2
Sample #	P-JH-033110
Starting Flow Rate	2.0
Sample Start Time	07:58
Ending Flow Rate	2.0
Sample End Time	15:37
Sample Volume	918

Sampled Person's Name:	Clinton Combs
BNSF Employee ID	1741768
Job Title	Asst Forman
Machine Type/Name	NA
Pump Number	P-3
Sample #	P-CC-033110
Starting Flow Rate	2.0
Sample Start Time	08:00
Ending Flow Rate	2.0
Sample End Time	15:36
Sample Volume	912

Sampled Person's Name:	Carson Poore
BNSF Employee ID	1782028
Job Title	Trackman
Machine Type/Name	NA
Pump Number	P-4
Sample #	P-CP-033110
Starting Flow Rate	2.0
Sample Start Time	08:03
Ending Flow Rate	2.0
Sample End Time	15:39
Sample Volume	912

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 3/31/10 Work Area Mileposts: 1340B- 1338T

Sampled Person's Name:	Andrew Smith
BNSF Employee ID	1790633
Job Title	Grinder
Machine Type/Name	NA
Pump Number	P-5
Sample #	P-AS-033110
Starting Flow Rate	2.0
Sample Start Time	08:05
Ending Flow Rate	2.0
Sample End Time	15:42
Sample Volume	914

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 3/31/10 Work Area Mileposts: 1340B- 1338T

Approx MP of Sample Location	1339.3
GPS Coords	N 48.49286 W 115.91483
Receptor Present?	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-1
Sample # 1	S 1339.3 W 033110
Starting Flow Rate	7.0
Sample Start Time	08:42
Ending Flow Rate	7.0
Sample End Time	13:52
Sample Volume	2170

Approx MP of Sample Location	1339.4
GPS Coords	N 48.49286 W 115.91483
Receptor Present	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-2
Sample # 2	S- 1339.4 E 033110
Starting Flow Rate	7.0
Sample Start Time	08:43
Ending Flow Rate	7.0
Sample End Time	13:53
Sample Volume	2170

Approx MP of Sample Location	
GPS Coords	N W
Receptor Present	Y / N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/1/10 Work Area Mileposts: 1331.8 - 1332.5

Sampled Person's Name:	Trevor Beers
BNSF Employee ID	1660828
Job Title	Plugger
Machine Type/Name	Plugger
Pump Number	P-1
Sample #	P-TB-040110
Starting Flow Rate	2.0
Sample Start Time	08:00
Ending Flow Rate	2.0
Sample End Time	15:50
Sample Volume	940

Sampled Person's Name:	John Hobbs
BNSF Employee ID	1275048
Job Title	Section Man
Machine Type/Name	Labor
Pump Number	P-2
Sample #	P-JH-040110
Starting Flow Rate	2.0
Sample Start Time	08:01
Ending Flow Rate	2.0
Sample End Time	15:37
Sample Volume	912

Sampled Person's Name:	Ron Hayes
BNSF Employee ID	1276343
Job Title	Section Man
Machine Type/Name	Labor
Pump Number	P-3
Sample #	P-RH-040110
Starting Flow Rate	2.0
Sample Start Time	08:03
Ending Flow Rate	2.0
Sample End Time	15:40
Sample Volume	914

Sampled Person's Name:	Allen Gehrke
BNSF Employee ID	2090806
Job Title	Foreman
Machine Type/Name	NA
Pump Number	P-4
Sample #	P-AG-040110
Starting Flow Rate	2.0
Sample Start Time	08:08
Ending Flow Rate	2.0
Sample End Time	15:47
Sample Volume	918

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/1/10 Work Area Mileposts: 1331.8- 1332.5

Sampled Person's Name:	Brian Albro
BNSF Employee ID	7460306
Job Title	Truck Driver
Machine Type/Name	Truck
Pump Number	P-5
Sample #	P-BA-040110
Starting Flow Rate	2.0
Sample Start Time	08:10
Ending Flow Rate	2.0
Sample End Time	15:58
Sample Volume	936

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/1/10 Work Area Mileposts: 1331.8 - 1332.5

Approx MP of Sample Location	1332.0
GPS Coords	N 48.44680 W 115.79045
Receptor Present?	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-1
Sample # 1	S1332.0W040110
Starting Flow Rate	7.0
Sample Start Time	09:00
Ending Flow Rate	7.0
Sample End Time	14:40
Sample Volume	2380

Approx MP of Sample Location	1332.1
GPS Coords	N 48.44680 W 115.79045
Receptor Present	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-2
Sample # 2	S1332.1E040110
Starting Flow Rate	7.0
Sample Start Time	09:08
Ending Flow Rate	7.0
Sample End Time	14:45
Sample Volume	2394

Approx MP of Sample Location	
GPS Coords	N W
Receptor Present	Y / N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/5/10 Work Area Mileposts: 1330 - 1332

Sampled Person's Name:	Tony Cox
BNSF Employee ID	1750249
Job Title	Group-3
Machine Type/Name	Cribber
Pump Number	P-1
Sample #	P-TC-040510
Starting Flow Rate	2.0
Sample Start Time	08:00
Ending Flow Rate	2.0
Sample End Time	15:10
Sample Volume	860

Sampled Person's Name:	Andrew Smith
BNSF Employee ID	1790633
Job Title	Grinder
Machine Type/Name	NA
Pump Number	P-2
Sample #	P-AS 040510
Starting Flow Rate	2.0
Sample Start Time	07:56
Ending Flow Rate	2.0
Sample End Time	15:38
Sample Volume	924

Sampled Person's Name:	Doug Throop
BNSF Employee ID	7351133
Job Title	Labor
Machine Type/Name	NA
Pump Number	P-3
Sample #	P-DT 040510
Starting Flow Rate	2.0
Sample Start Time	07:53
Ending Flow Rate	2.0
Sample End Time	15:20
Sample Volume	894

Sampled Person's Name:	Carson Poore
BNSF Employee ID	1782028
Job Title	Trackman
Machine Type/Name	NA
Pump Number	P-4
Sample #	P-CP 040510
Starting Flow Rate	2.0
Sample Start Time	07:54
Ending Flow Rate	2.0
Sample End Time	15:03
Sample Volume	858

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/5/10 Work Area Mileposts: 1330 - 1332

Sampled Person's Name:	Randy Finley
BNSF Employee ID	171494C
Job Title	Group-5
Machine Type/Name	N/A
Pump Number	P-5
Sample #	P-RF 040510
Starting Flow Rate	2.0
Sample Start Time	07:58
Ending Flow Rate	2.0
Sample End Time	15:36
Sample Volume	916

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/5/10 Work Area Mileposts: 1330 - 1332

Approx MP of Sample Location	1324.09
GPS Coords	N 48.43175 W 115.63010
Receptor Present?	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-1
Sample # 1	S 1324.09W040510
Starting Flow Rate	7.0
Sample Start Time	08:20
Ending Flow Rate	7.0
Sample End Time	14:56
Sample Volume	2772

Approx MP of Sample Location	1324.10
GPS Coords	N 48.43175 W 115.63010
Receptor Present	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-2
Sample # 2	S 1324.1E040510
Starting Flow Rate	7.0
Sample Start Time	08:24
Ending Flow Rate	7.0
Sample End Time	14:59
Sample Volume	2765

Approx MP of Sample Location	
GPS Coords	N W
Receptor Present	Y / N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/6/10 Work Area Mileposts: 1322.06 - 1322.38

Sampled Person's Name:	Trevor Beers
BNSF Employee ID	1660829
Job Title	Plugger
Machine Type/Name	Plugger
Pump Number	P-1
Sample #	P-TB-040610
Starting Flow Rate	2.0
Sample Start Time	07:49
Ending Flow Rate	2.0
Sample End Time	13:01
Sample Volume	624

Sampled Person's Name:	Carso Poore
BNSF Employee ID	1782028
Job Title	Trackman
Machine Type/Name	NA
Pump Number	P-2
Sample #	P-CP 040610
Starting Flow Rate	2.0
Sample Start Time	07:52
Ending Flow Rate	2.0
Sample End Time	14:12
Sample Volume	760

Sampled Person's Name:	Sean Hunter
BNSF Employee ID	1767029
Job Title	Machine Operator
Machine Type/Name	Spiker
Pump Number	P-3
Sample #	P-SH-040610
Starting Flow Rate	2.0
Sample Start Time	07:57
Ending Flow Rate	2.0
Sample End Time	14:16
Sample Volume	758

Sampled Person's Name:	Randy Finley
BNSF Employee ID	1714914
Job Title	Group 5
Machine Type/Name	NA
Pump Number	P-4
Sample #	P-RF 040610
Starting Flow Rate	2.0
Sample Start Time	07:58
Ending Flow Rate	2.0
Sample End Time	14:26
Sample Volume	776

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/6/10 Work Area Mileposts: 1332-

Sampled Person's Name:	Ryan Tucker
BNSF Employee ID	1773621
Job Title	Welding
Machine Type/Name	NA
Pump Number	P-5
Sample #	P-RT-040610
Starting Flow Rate	2.0
Sample Start Time	07:56
Ending Flow Rate	2.0
Sample End Time	14:30
Sample Volume	788

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/6/10 Work Area Mileposts: 1322.06 – 1322.38

Approx MP of Sample Location	1322.06
GPS Coords	N 48.40931 W 115.59500
Receptor Present?	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-1
Sample # 1	S-1322.06 W 040610
Starting Flow Rate	7.0
Sample Start Time	08:39
Ending Flow Rate	7.0
Sample End Time	13:57
Sample Volume	2226

Approx MP of Sample Location	1322.07
GPS Coords	N 48.40931 W 115.59500
Receptor Present	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-2
Sample # 2	S-1322.07 E 040610
Starting Flow Rate	7.0
Sample Start Time	08:43
Ending Flow Rate	7.0
Sample End Time	13:59
Sample Volume	2212

Approx MP of Sample Location	
GPS Coords	N W
Receptor Present	Y / N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/7/10 Work Area Mileposts: 1311.63 - 1310.8

Sampled Person's Name:	Tony Cox
BNSF Employee ID	1750249
Job Title	Group 5
Machine Type/Name	Cribber
Pump Number	P-1
Sample #	PTC040710
Starting Flow Rate	2.0
Sample Start Time	07:54
Ending Flow Rate	2.0
Sample End Time	15:41
Sample Volume	934

Sampled Person's Name:	Sean Hunter
BNSF Employee ID	1767029
Job Title	Machine Operator
Machine Type/Name	Spiker
Pump Number	P-2
Sample #	P-SH040710
Starting Flow Rate	2.0
Sample Start Time	07:56
Ending Flow Rate	2.0
Sample End Time	15:03
Sample Volume	854

Sampled Person's Name:	Michael O'Mary
BNSF Employee ID	1145937
Job Title	Labor
Machine Type/Name	NA
Pump Number	P-3
Sample #	P-MO-040710
Starting Flow Rate	2.0
Sample Start Time	07:57
Ending Flow Rate	2.0
Sample End Time	15:09
Sample Volume	864

Sampled Person's Name:	Eric Hotpar
BNSF Employee ID	1748573
Job Title	Machine Operator
Machine Type/Name	Rail Heater
Pump Number	P-4
Sample #	P-EH-040710
Starting Flow Rate	2.0
Sample Start Time	07:58
Ending Flow Rate	2.0
Sample End Time	15:06
Sample Volume	856

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/7/10 Work Area Mileposts:

Sampled Person's Name:	John Hobbs
BNSF Employee ID	1775048
Job Title	Section Man
Machine Type/Name	Plugger
Pump Number	P-5
Sample #	PJH040710
Starting Flow Rate	2.0
Sample Start Time	07:59
Ending Flow Rate	2.0
Sample End Time	15:11
Sample Volume	864

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/7/10 Work Area Mileposts: 1311.63 - 1310.8

Approx MP of Sample Location	1310.6
GPS Coords	N 48.36908 W 115.42483
Receptor Present?	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-1
Sample # #1	S 1310.6 W 040710
Starting Flow Rate	7.0
Sample Start Time	08:24
Ending Flow Rate	7.0
Sample End Time	14:10
Sample Volume	2422

Approx MP of Sample Location	1310.7
GPS Coords	N 48.36908 W 115.42483
Receptor Present	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-2
Sample # 2	S-1310.7 E 040710
Starting Flow Rate	~~08:26~~ 7.0
Sample Start Time	08:26
Ending Flow Rate	7.0
Sample End Time	14:12
Sample Volume	2422

Approx MP of Sample Location	
GPS Coords	N W
Receptor Present	Y / N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	~~7.0~~
Sample Start Time	
Ending Flow Rate	7.0
Sample End Time	
Sample Volume	

Notes:

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/8/10 Work Area Mileposts: 1308.92 – 1308.49

Sampled Person's Name:	John Hobbs
BNSF Employee ID	1775048
Job Title	Section Man
Machine Type/Name	Plugger
Pump Number	P-1
Sample #	P-JH-040810
Starting Flow Rate	2.0
Sample Start Time	08:01
Ending Flow Rate	2.0
Sample End Time	14:13
Sample Volume	744

Sampled Person's Name:	Ron Hayes
BNSF Employee ID	1776343
Job Title	Section Man
Machine Type/Name	Laber
Pump Number	P-2
Sample #	P-RH040810
Starting Flow Rate	2.0
Sample Start Time	08:04
Ending Flow Rate	2.0
Sample End Time	14:14
Sample Volume	740

Sampled Person's Name:	Carson Poore
BNSF Employee ID	1782028
Job Title	Trackman
Machine Type/Name	NA
Pump Number	P-3
Sample #	P-CP-040810
Starting Flow Rate	2.0
Sample Start Time	08:06
Ending Flow Rate	2.0
Sample End Time	14:17
Sample Volume	742

Sampled Person's Name:	Ryan Tucker
BNSF Employee ID	1773621
Job Title	Welding
Machine Type/Name	NA
Pump Number	P-4
Sample #	P-RT040810
Starting Flow Rate	2.0
Sample Start Time	08:07
Ending Flow Rate	2.0
Sample End Time	14:19
Sample Volume	744

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/8/10 Work Area Mileposts: 1308.92 - 1308.49

Sampled Person's Name:	Brian Gartman
BNSF Employee ID	1791078
Job Title	Group 5
Machine Type/Name	Blower
Pump Number	P-5
Sample #	P-BG-040810
Starting Flow Rate	2.0
Sample Start Time	08:10
Ending Flow Rate	2.0
Sample End Time	14:16
Sample Volume	732

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: 4/8/10 Work Area Mileposts: 1308.92 - 1308.49

Approx MP of Sample Location	1308.70
GPS Coords	N 48036009 W 115.37921
Receptor Present?	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-1
Sample #	S-1308.70W040810
Starting Flow Rate	7.0
Sample Start Time	08:37
Ending Flow Rate	7.0
Sample End Time	15:57
Sample Volume	3080

Approx MP of Sample Location	1308.70
GPS Coords	N W
Receptor Present	Y / X N If yes then describe:
Samples Downwind?	Y X / N If no explain why:
Pump Number	HV-2
Sample #	S 1308.71
Starting Flow Rate	7.0
Sample Start Time	08:39
Ending Flow Rate	7.0
Sample End Time	15:59
Sample Volume	3080

Approx MP of Sample Location	
GPS Coords	N W
Receptor Present	Y / N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

Concrete Ties South Rail Right track

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: March 29, 2010 Work Area Mileposts: 1338.7-1339.4

Sampled Person's Name:	Miles Singer
BNSF Employee ID	7334600
Job Title	Asst Foreman
Machine Type/Name	Walking
Pump Number	MV-3
Sample #	P-NS-032910
Starting Flow Rate	2
Sample Start Time	0802
Ending Flow Rate	1.2
Sample End Time	1506
Sample Volume	844

Sampled Person's Name:	Russ Lemunyon
BNSF Employee ID	1751890
Job Title	Sectionman
Machine Type/Name	Cutting Rail
Pump Number	MV-4
Sample #	P-RL-032910
Starting Flow Rate	2
Sample Start Time	0804
Ending Flow Rate	1.8
Sample End Time	1507
Sample Volume	843

Sampled Person's Name:	Chris Radford
BNSF Employee ID	1751805
Job Title	Truck Driver
Machine Type/Name	Walking/Cutting Rail
Pump Number	MV-2
Sample #	P-CB-032910
Starting Flow Rate	2
Sample Start Time	0806
Ending Flow Rate	1.2
Sample End Time	1515 Sample wet pump stopped working
Sample Volume	849

Sampled Person's Name:	Jeremy Brown
BNSF Employee ID	1751712
Job Title	C+D Razor
Machine Type/Name	Grinder
Pump Number	MV-1
Sample #	P-JB-032910
Starting Flow Rate	2
Sample Start Time	0808
Ending Flow Rate	2
Sample End Time	1509
Sample Volume	841

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: March 29, 2010 Work Area Mileposts: 1338.7-1339.4

Sampled Person's Name:	Grant Weisenburger
BNSF Employee ID	1791193
Job Title	Track Walking
Machine Type/Name	Clippers
Pump Number	P-5
Sample #	P-BW-0329-10
Starting Flow Rate	2
Sample Start Time	0810
Ending Flow Rate	1.4
Sample End Time	1508
Sample Volume	838

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: March 29, 2010 Work Area Mileposts: 1338.7 - 1339.4

Approx MP of Sample Location	1339
GPS Coords	N 48° 23' 36" W 115° 33' 1"
Receptor Present?	Y / (N) If yes then describe:
Samples Downwind?	(Y) / N If no explain why:
Pump Number	8360
Sample #	S-1338W-032910
Starting Flow Rate	7
Sample Start Time	0835
Ending Flow Rate	5.5
Sample End Time	1441
Sample Volume	3,126

Approx MP of Sample Location	1339
GPS Coords	N 48° 23' 36" W 115° 33' 1"
Receptor Present	Y / (N) If yes then describe:
Samples Downwind?	(Y) / N If no explain why:
Pump Number	8369
Sample #	S-1338E-032910
Starting Flow Rate	7
Sample Start Time	0836
Ending Flow Rate	5.5
Sample End Time	1442
Sample Volume	3,127

Approx MP of Sample Location	
GPS Coords	N W
Receptor Present	Y / N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

South Rail

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: March 30, 2010

Work Area Mileposts: 1 — 1337.960 - 1338.110; 2 — 1335.120 - 1335.300

Sampled Person's Name:	Chris Bradford
BNSF Employee ID	175908
Job Title	Truck Driver
Machine Type/Name	Grove
Pump Number	MV-1
Sample #	P-CB-033010
Starting Flow Rate	2
Sample Start Time	0800
Ending Flow Rate	1.4
Sample End Time	1557
Sample Volume	1239

✓

Sampled Person's Name:	Niles Singer
BNSF Employee ID	733460
Job Title	Asst foreman
Machine Type/Name	Walking Track
Pump Number	MV-2
Sample #	P-NS-033010
Starting Flow Rate	2
Sample Start Time	0804
Ending Flow Rate	1.1
Sample End Time	1536
Sample Volume	1076

✓

Sampled Person's Name:	Brant Weisenburger
BNSF Employee ID	179193
Job Title	Driver
Machine Type/Name	Walking / Cutting Rail
Pump Number	MV-3
Sample #	P-BW-033010
Starting Flow Rate	2
Sample Start Time	0806
Ending Flow Rate	2
Sample End Time	1534
Sample Volume	1036

✓

Sampled Person's Name:	Jermel Brown
BNSF Employee ID	174972
Job Title	Cribber
Machine Type/Name	Cribber / walking track
Pump Number	MV4
Sample #	P-JB-033010
Starting Flow Rate	2
Sample Start Time	0809
Ending Flow Rate	1.4
Sample End Time	1538
Sample Volume	1050

✓

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

1 | 2

Date: March 30, 2010 Work Area Mileposts: 1337.960 - 1338.110 | 1335120 - 1335-300

Sampled Person's Name:	Russ Lemunya
BNSF Employee ID	175 1890
Job Title	Section man
Machine Type/Name	General tools
Pump Number	LV3
Sample #	P-RL-033010
Starting Flow Rate	2
Sample Start Time	0810
Ending Flow Rate	1.5
Sample End Time	1553
Sample Volume	1141

✓

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: March 30, 2010

Work Area Mileposts: 1337.960-1338.110 (1) | 1335.120-1335.300 (2)

Approx MP of Sample Location	1338	
GPS Coords	N 48° 23' 36"N	W 115° 33' 1"
Receptor Present?	Y / (N) If yes then describe:	
Samples Downwind?	(Y) / N If no explain why:	
Pump Number		
Sample #	S-1338W-033010	
Starting Flow Rate	7	
Sample Start Time	0840	
Ending Flow Rate	6.0	
Sample End Time	1340	
Sample Volume	2100	

Approx MP of Sample Location	1338	
GPS Coords	N 48° 23' 36"N	W 115° 33' 1"
Receptor Present	Y / (N) If yes then describe:	
Samples Downwind?	(Y) / N If no explain why:	
Pump Number		
Sample #	S-1338E-033010	
Starting Flow Rate	7	
Sample Start Time	0840	
Ending Flow Rate	6.0	
Sample End Time	1340	
Sample Volume	2100	

Approx MP of Sample Location		
GPS Coords	N	W
Receptor Present	Y / N If yes then describe:	
Samples Downwind?	Y / N If no explain why:	
Pump Number		
Sample #		
Starting Flow Rate		
Sample Start Time		
Ending Flow Rate		
Sample End Time		
Sample Volume		

Notes:

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: March 31, 2010 Work Area Mileposts: 1331.80-1332.50

Sampled Person's Name:	Troy Webster
BNSF Employee ID	1771o350
Job Title	Group 5 Machine
Machine Type/Name	Tregauger
Pump Number	MV-2
Sample #	P-TW-033110
Starting Flow Rate	2
Sample Start Time	0802
Ending Flow Rate	1.6
Sample End Time	1638
Sample Volume	996

Sampled Person's Name:	Lynnard Spiry
BNSF Employee ID	1420079
Job Title	Asst. Foreman
Machine Type/Name	Walking Track
Pump Number	MV-1
Sample #	P-LS-033110
Starting Flow Rate	2
Sample Start Time	0759
Ending Flow Rate	1.3
Sample End Time	1625
Sample Volume	986

Sampled Person's Name:	Thomas Swift
BNSF Employee ID	1782010
Job Title	Group 5
Machine Type/Name	Rail Heater / Bomb
Pump Number	MV-4
Sample #	P-TS-033110
Starting Flow Rate	2
Sample Start Time	0806
Ending Flow Rate	1.3
Sample End Time	1657
Sample Volume	1011

Sampled Person's Name:	Jermel Brown
BNSF Employee ID	1749712
Job Title	Cribber Operator
Machine Type/Name	Cribber / Walkingtrack
Pump Number	MV-3
Sample #	P-JB 033110
Starting Flow Rate	2.0
Sample Start Time	~~0800~~ 0804
Ending Flow Rate	1.3
Sample End Time	1644
Sample Volume	1000

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: March 31, 2010 Work Area Mileposts: 1331.80-1332.50

Sampled Person's Name:	Kasey Kerwin
BNSF Employee ID	1720192
Job Title	Laborer
Machine Type/Name	Various
Pump Number	LV-3
Sample #	P-KK-033110
Starting Flow Rate	2
Sample Start Time	0810
Ending Flow Rate	1.5
Sample End Time	1615
Sample Volume	965

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: March 31, 2010 Work Area Mileposts: 1331.80-1332.50

Approx MP of Sample Location	1332
GPS Coords	N W
Receptor Present?	Y / (N) If yes then describe:
Samples Downwind?	(Y) / N If no explain why:
Pump Number	0869
Sample #	S-1332W-033110
Starting Flow Rate	7.5
Sample Start Time	1000
Ending Flow Rate	6.0
Sample End Time	1530
Sample Volume	2280

Approx MP of Sample Location	1332
GPS Coords	N W
Receptor Present	Y / (N) If yes then describe:
Samples Downwind?	(Y) / N If no explain why:
Pump Number	0835
Sample #	S-1332E-033110
Starting Flow Rate	7.5
Sample Start Time	1000
Ending Flow Rate	6.0
Sample End Time	1530
Sample Volume	2280

Approx MP of Sample Location	
GPS Coords	N W
Receptor Present	Y / N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes: Generator stopped working at undetermined time. Limited access area & I was not able to check generator and pumps as I normally would. Track work & limited access provided this. In the future I will assure I set up stationary pumps in a representative area with access

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: April 1, 2010 Plant

Work Area Mileposts:	1	2
	1329.81-1330.04	1324.49-1324.71

Sampled Person's Name:	~~Brett~~ Weisebur[illegible]
BNSF Employee ID	1791143
Job Title	Driver
Machine Type/Name	
Pump Number	MV-1
Sample #	P-BW040110
Starting Flow Rate	2.0
Sample Start Time	0854
Ending Flow Rate	1.2
Sample End Time	1459
Sample Volume	725

Sampled Person's Name:	~~Jason~~ Jermel Brown
BNSF Employee ID	1749712
Job Title	Cribber
Machine Type/Name	
Pump Number	MV-2
Sample #	PJB-040110
Starting Flow Rate	2.0
Sample Start Time	0855
Ending Flow Rate	1.0
Sample End Time	1540
Sample Volume	825

Sampled Person's Name:	Niles Singer
BNSF Employee ID	7334[illegible]005
Job Title	Asst Foreman
Machine Type/Name	
Pump Number	MV-3
Sample #	P-NS-040110
Starting Flow Rate	2
Sample Start Time	0857
Ending Flow Rate	1.8
Sample End Time	1526
Sample Volume	809

Sampled Person's Name:	Kasey Kerwin
BNSF Employee ID	1720192
Job Title	Laborer
Machine Type/Name	Tools
Pump Number	MV-4
Sample #	P-KK-040110
Starting Flow Rate	2
Sample Start Time	0859
Ending Flow ~~Rate~~ Time	1453
Sample End ~~Time~~ Rate	1.6
Sample Volume	713

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: April 1, 2010 Work Area Mileposts: 1329.81 - 1330.09 | 1324.49 - 1324.71

Sampled Person's Name:	Chris Bradford
BNSF Employee ID	1751908
Job Title	Driver / Rail cutting
Machine Type/Name	Rail Cutter
Pump Number	LV-3
Sample #	P-CB-040110
Starting Flow Rate	2
Sample Start Time	0927
Ending Flow Rate	1.4
Sample End Time	1458
Sample Volume	631

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

1 | 2

Date: April 1, 2010 Work Area Mileposts: 1329.81-1330.04 1324.49-1324.71

Approx MP of Sample Location	1329.7	
GPS Coords	N	W
Receptor Present?	Y / (N)	If yes then describe:
Samples Downwind?	(Y) / N	If no explain why:
Pump Number	8369	
Sample #	S-1329.7N-040110	
Starting Flow Rate	7.5	
Sample Start Time	0930	
Ending Flow Rate	6.0	
Sample End Time	1405	
Sample Volume	2225	

Approx MP of Sample Location	1329.7	
GPS Coords	N	W
Receptor Present	Y / (N)	If yes then describe:
Samples Downwind?	(Y) / N	If no explain why:
Pump Number		
Sample #	S-1329.7E-040110	
Starting Flow Rate	7.5	
Sample Start Time	0930	
Ending Flow ~~Rate~~ Time	1405	
Sample End ~~Time~~ Rate	6.5	
Sample Volume	2225	

Approx MP of Sample Location		
GPS Coords	N	W
Receptor Present	Y / N	If yes then describe:
Samples Downwind?	Y / N	If no explain why:
Pump Number		
Sample #		
Starting Flow Rate		
Sample Start Time		
Ending Flow Rate		
Sample End Time		
Sample Volume		

Notes:

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: April 5, 2010 Work Area Mileposts: 1310.80 - 1311.60

Sampled Person's Name:	Niles Singer
BNSF Employee ID	7334109
Job Title	Asst. Foreman
Machine Type/Name	Walking Track
Pump Number	MV-1
Sample #	P-NS-040510
Starting Flow Rate	2.0
Sample Start Time	0851
Ending Flow Rate	1.8
Sample End Time	1700
Sample Volume	969

Sampled Person's Name:	Brant Weisenburger
BNSF Employee ID	1791193
Job Title	Laborer
Machine Type/Name	Clippers
Pump Number	MV-2
Sample #	P-BW-040510
Starting Flow Rate	2.0
Sample Start Time	0853
Ending Flow Rate	1.9
Sample End Time	1706
Sample Volume	973

C

Sampled Person's Name:	Troy Webster
BNSF Employee ID	1776350
Job Title	Group 5 Machine Operator
Machine Type/Name	Pregauger
Pump Number	MV-3
Sample #	P-TW-040510
Starting Flow Rate	2.0
Sample Start Time	0855
Ending Flow Rate	1.9
Sample End Time	1711
Sample Volume	975

Sampled Person's Name:	Jermel Brown
BNSF Employee ID	1744712
Job Title	Crib Razzer
Machine Type/Name	Cribber
Pump Number	MV-4
Sample #	P-JB-040510
Starting Flow Rate	2.0
Sample Start Time	0857
Ending Flow Rate	1.9
Sample End Time	1712
Sample Volume	974

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: April 5, 2010 Work Area Mileposts: 1310.80-1311.60

Sampled Person's Name:	Thomas Swift
BNSF Employee ID	1782010
Job Title	Group 5 Machine Operator
Machine Type/Name	Rail Heater/ Bomb
Pump Number	LV-3
Sample #	P-TS-040510
Starting Flow Rate	2.0
Sample Start Time	0858
Ending Flow Rate	1.9
Sample End Time	~~[illegible]~~ 1705
Sample Volume	968

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: April 5, 2010 Work Area Mileposts: 1310.80-1311.60

Approx MP of Sample Location	1311
GPS Coords	N W
Receptor Present?	Y / (N) If yes then describe:
Samples Downwind?	(Y) / N If no explain why:
Pump Number	8360
Sample #	S-1311W-040510
Starting Flow Rate	7.5
Sample Start Time	1000
Ending Flow Rate	7.5
Sample End Time	1500
Sample Volume	2250

Approx MP of Sample Location	1311
GPS Coords	N W
Receptor Present	Y / (N) If yes then describe:
Samples Downwind?	(Y) / N If no explain why:
Pump Number	8369
Sample #	S-1311E-040510
Starting Flow Rate	7.5
Sample Start Time	1000
Ending Flow Rate	7.0
Sample End Time	1500
Sample Volume	2250

Approx MP of Sample Location	
GPS Coords	N W
Receptor Present	Y / N If yes then describe:
Samples Downwind?	Y / N If no explain why:
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Notes:

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: April 6, 2010

Work Area Mileposts: 1 | 2
1309.20-1309.54 | 1308.74-1308.92

Sampled Person's Name:	Brant Weisenburger
BNSF Employee ID	179193
Job Title	laborer
Machine Type/Name	Clippers
Pump Number	MV-1
Sample #	P-BW-040610
Starting Flow Rate	2.0
Sample Start Time	0854
Ending Flow Rate	1.8
Sample End Time	1625
Sample Volume	870

Sampled Person's Name:	Jermel Brown
BNSF Employee ID	179712
Job Title	Cribrazzer
Machine Type/Name	Cribber
Pump Number	~~LV-3~~
Sample #	P-JB-040610
Starting Flow Rate	2.0
Sample Start Time	0856
Ending Flow Rate	1.6
Sample End Time	1640
Sample Volume	884

Sampled Person's Name:	Niles Singer
BNSF Employee ID	7334600
Job Title	Asst. Foreman
Machine Type/Name	Walking Track
Pump Number	MV-2
Sample #	P-NS-040610
Starting Flow Rate	2.0
Sample Start Time	0858
Ending Flow Rate	1.6
Sample End Time	1630
Sample Volume	872

Sampled Person's Name:	Chris [redacted] Bradford
BNSF Employee ID	1751908
Job Title	Cutting Rail / Truck Driver
Machine Type/Name	
Pump Number	MV-3
Sample #	P-CG-040610
Starting Flow Rate	2.0
Sample Start Time	0900
Ending Flow Rate	1.8
Sample End Time	1620
Sample Volume	860

Personal Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: April 6, 2010 Work Area Mileposts: 1 1309.20-1309.54 | 2 1308.74-1308.92

Sampled Person's Name:	Tyler Annala
BNSF Employee ID	1790401
Job Title	Group 5 Mach
Machine Type/Name	SARS mach
Pump Number	MV-4
Sample #	P-TA-040610
Starting Flow Rate	2.0
Sample Start Time	0902
Ending Flow Rate	1.6
Sample End Time	1627
Sample Volume	865

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Sampled Person's Name:	
BNSF Employee ID	
Job Title	
Machine Type/Name	
Pump Number	
Sample #	
Starting Flow Rate	
Sample Start Time	
Ending Flow Rate	
Sample End Time	
Sample Volume	

Stationary Air Sample Data
BNSF Kootenai River Subdivision
OSHA Sampling

Date: April 6, 2010

Work Area Mileposts: 1309.20-1309.54 | 1308.74-1308.92

	1	2
Approx MP of Sample Location	1309	
GPS Coords	N W	
Receptor Present?	Y / (N) If yes then describe:	
Samples Downwind?	(Y) / N If no explain why:	
Pump Number	8361	
Sample #	S-1309W-040610	
Starting Flow Rate	7.5	
Sample Start Time	0930	
Ending Flow Rate	7.0	
Sample End Time	1336	
Sample Volume	1806	

	1	2
Approx MP of Sample Location	1309	
GPS Coords	N W	
Receptor Present	Y / (N) If yes then describe:	
Samples Downwind?	(Y) / N If no explain why:	
Pump Number	8369	
Sample #	S-1309E-040610	
Starting Flow Rate	7.5	
Sample Start Time	0920	
Ending Flow Rate	6.9	
Sample End Time	1336	
Sample Volume	1810	

	1	2
Approx MP of Sample Location		
GPS Coords	N W	
Receptor Present	Y / N If yes then describe:	
Samples Downwind?	Y / N If no explain why:	
Pump Number		
Sample #		
Starting Flow Rate		
Sample Start Time		
Ending Flow Rate		
Sample End Time		
Sample Volume		

Notes:

ATTACHMENT C

EMSL Laboratory Reports and Chain of Custody Forms

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 271000046

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc		**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**	
Street: 11 E. Superior Street, Suite #260		*Third Party Billing requires written authorization from third party*	
City: Duluth	**State/Province: MN**	**Zip/Postal Code: 55802**	**Country: USA**
Report To (Name): Scott Carney		**Fax #: (218) 625-2337**	
Telephone #: (218) 625-2332 x 303		**Email Address: carney@emr-inc.com**	
Project Name/Number: 9329-001			
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:**	**U.S. State Samples Taken: Montana**	

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT** (AHERA only)
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Amanda Thornton-DeWitt | **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-NS-032910 ✓	Niles Singer-Asst. Foreman-MP 1338.7-1339.4	844	03-29-10/ 0802-1506
P-RL-032910 ✓	Russ Lemunyan-Sectionman- MP 1338.7-1339.4	843	03-29-10/ 0804-1507
P-CB-032910 ✓	Chris Bradford-Truck Driver/Rail Cutter- MP 1338.7-1339.4	849	03-29-10/ 0806-1515
P-JB-032910 ✓	Jermel Brown-Cribber Operator- MP 1338.7-1339.4	841	03-29-10/ 0808-1509
P-BW-032910 ✓	Brant Weisenburger- Clipper Operator/Walking Track-MP 1338.7-1339.4	838	03-29-10/ 0810-1508
S-1338W-032910 ✓	Stationary Pump-West end	3126	03-29-10/ 0835-1441
S-1338E-032910 ✓	Stationary Pum-East End	3126	03-29-10/0836-1442
CB-Open-032910 ✓	Control Blank-Opened	0	03-29-10/ 1450

Client Sample # (s): Amanda Thornton-DeWitt - **Total # of Samples:** 8

Relinquished (Client): Amanda Thornton-DeWitt **Date:** 4-7-10 **Time:** 1027

Received (Lab): R. K. Mahoney **Date:** 4/7/10 **Time:** 1027

Comments/Special Instructions:

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 03/29/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:27 AM
EMSL Order: 271000046

EMSL Proj:
Analysis Date: 4/19/2010

Sampling Date 3/29/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	*Volume (Liters)*	*Area Analyzed (mm^2)*	*Non Asb*	*Asbestos Type(s)*	*# Structures* ≥ 0.5μ < 5	*# Structures* ≥5μ	*Analytical Sensitivity (S/cc)*	*Asbestos Concentration (S/mm^2)*	*Asbestos Concentration (S/cc)*
P-NS-032910 *271000046-0001*		844.00	0.1040		None Detected			0.0044	**<9.60**	**<0.0044**
P-RL-032910 *271000046-0002*		843.00			Overloaded					
P-CB-032910 *271000046-0003*		849.00			Filter Damaged					
P-JB-032910 *271000046-0004*		841.00	0.1040		None Detected			0.0044	**<9.60**	**<0.0044**
P-BW-032910 *271000046-0005*		838.00	0.1040		None Detected			0.0044	**<9.60**	**<0.0044**
S-1338W-032910 *271000046-0006*		3126.00	0.0520		None Detected			0.0024	**<19.00**	**<0.0024**
S-1338E-032910 *271000046-0007*		3126.00	0.0520		None Detected			0.0024	**<19.00**	**<0.0024**
CB-Open-032910 *271000046-0008*			0.1300		None Detected				**<7.70**	

Analyst(s)

Roy Pescador (7)

R. K. Mahoney, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-001**
Samples collected 03/29/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:27 AM
EMSL Order: 271000046

EMSL Proj:

Sampling Date 3/29/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for Indirect Prep)

Sample	Location	*Volume (Liters)*	*Area Analyzed (mm²)*	*Non Asb*	*Asbestos Type(s)*	*# Structures* ≥ 0.5μ < 5	*# Structures* ≥5μ	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*Total Asbestos Concentration (S/cc)*
P-RL-032910 *271000046-0002*		843.00	0.1300		None Detected			0.0330	**<72.00**	**<0.0330**

Analyst(s)

R.K. Mahoney

R. K. Mahoney, Laboratory Manager
or other approved signatory

INTERNAL CHAIN OF CUSTODY

4/7/2010 2:41:16 PM

Order ID: 271000044

Attn: Scott Carney
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802
Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-0001**
Samples collected 03/30/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:35 AM

EMSL Order: 271000044
EMSL Proj ID:
Cust COC ID

Test: TEM AHERA **Matrix** Air **TAT:** 24 Hour **Qty:** 8

Acct Sts: **Slsprsn:** rdemalo **Logged:** rpescador **Date:** 4/7/10

BillingFrequency:

Sample Condition: ☑ Acceptable ☐ Unacceptable

Comments

☐ Exempt from prep charge
☐ Exempt from lab opening fee
☐ Exempt from layer/aliquot charges

Prepped: KB **Date:** 4/12/10
Analyzed: **Date:**
Data Entry: **Date:**
Screened: **Date:**
Mailed: **Date:**

Special Instructions

Internal Comment

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000044	271000044-0001	P-CB-033010 DL	15mL 2nd dilution	4/8/2010 10:35:00 AM
271000044	271000044-0002	P-NS-033010		4/8/2010 10:35:00 AM
271000044	271000044-0003	P-BW-033010		4/8/2010 10:35:00 AM
271000044	271000044-0004	P-JB-033010		4/8/2010 10:35:00 AM
271000044	271000044-0005	P-RL-033010 DL	15mL 2nd dilution	4/8/2010 10:35:00 AM
271000044	271000044-0006	S-1338W-033010		4/8/2010 10:35:00 AM
271000044	271000044-0007	S-1338E-033010 (RS)		4/8/2010 10:35:00 AM
271000044	271000044-0008	CB-Open-033010		4/8/2010 10:35:00 AM

2710-EMR-13(S-U)/2710-EMR-AEC-14(L,M)
2710-EMR-18 (A)
LBJ

RS (RS)

INTERNAL CHAIN OF CUSTODY

4/16/2010 8:40:34 AM

Order ID: 271000044

Attn: Scott Carney
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-0001**
Samples collected 03/30/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:35 AM

EMSL Order: 271000044
EMSL Proj ID:
Cust COC ID

Test: TEM AHERA (Indirect) **Matrix** Air **TAT:** 24 Hour **Qty:** 2

Acct Sts: **SIsprsn:** rdemalo **Logged:** rpescador **Date:** 4/7/2010

BillingFrequency:

Sample Condition: ☐ Acceptable ☐ Unacceptable

Comments

☐ Exempt from prep charge
☐ Exempt from lab opening fee
☐ Exempt from layer/aliquot charges

Prepped: IAB **Date:** 4/12/10
Analyzed: _____ **Date:** _____
Data Entry: _____ **Date:** _____
Screened: _____ **Date:** _____
Mailed: _____ **Date:** _____

Special Instructions

Internal Comment

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000044	271000044-0001	P-CB-033010		4/8/2010 10:35:00 AM
271000044	271000044-0005	P-RL-033010		4/8/2010 10:35:00 AM

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 271000044

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 11 E. Superior Street, Suite #260	
City: Duluth **State/Province: MN**	**Zip/Postal Code: 55802** **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:** **U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Amanda Thornton-DeWitt **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-CB-033010 ✓	Chris Bradford-Truck Driver/Rail Cutter- MP 1337.960-1338.110/ 1335.120-1335.300	1239 Overloaded	03-30-10/ 0800-1557
P-NS-033010 ✓	Niles Singer- Asst Foreman/Walking Track-MP 1337.960-1338.110/1335.120-1335.300	1064	03-30-10/0804-1536
P-BW-033010 ✓	Brant Weisenburger- Driver/Cutting Rail- MP 1337.960-1338.110/1335.120-1335.300	1036	03-30-10/ 0806-1534
P-JB-033010 ✓	Jermel Brown- Cribber Operator-MP 1337.960-1338.110/1335.120-1335.300	1050	03-30-10/ 0808-1538
P-RL-033010 ✓	Russ Lemunya- Sectionman/General Tools- MP 1337.960-1338.100/1335.120-1335.300	1141 Overloaded	03-30-10/0810-1553
S-1338W-033010 ✓	Stationary Pump- West End MP 1338	2100	03-30-10/ 0840-1340
S-1338E-033010 ✓	Stationary Pump- East End MP 1338	2100	03-30-10/ 0840-1340
CB-Open-033010 ✓	Control Blank- Opened	0	03-30-10 / 1400

Client Sample # (s): Amanda Thornton-DeWitt - **Total # of Samples:** 8

Relinquished (Client): Amanda Thornton-DeWitt **Date:** 4-7-10 **Time:** 1035

Received (Lab): R.K. Mahoney **Date:** 4/7/10 **Time:** 1035

Comments/Special Instructions:

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-0001**
Samples collected 03/30/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:35 AM
EMSL Order: 271000044

EMSL Proj:
Analysis Date: 10/16/2010

Sampling Date 3/30/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5	# Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-CB-033010 *271000044-0001*		1239.00			Overloaded					
P-NS-033010 *271000044-0002*		1064.00	0.0780		None Detected			0.0046	**<13.00**	**<0.0046**
P-BW-033010 *271000044-0003*		1036.00	0.0780		None Detected			0.0048	**<13.00**	**<0.0048**
P-JB-033010 *271000044-0004*		1050.00	0.0780		None Detected			0.0047	**<13.00**	**<0.0047**
P-RL-033010 *271000044-0005*		1141.00			Overloaded					
S-1338W-033010 *271000044-0006*		2100.00	0.0520		None Detected			0.0035	**<19.00**	**<0.0035**
S-1338E-033010 *271000044-0007*		2100.00	0.0520		None Detected			0.0035	**<19.00**	**<0.0035**
CB-Open-033010 *271000044-0008*			0.1300		None Detected				**<7.70**	

Analyst(s)

Roy Pescador (8)

R. K. Mahoney, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-0001**
Samples collected 03/30/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:35 AM
EMSL Order: 271000044

EMSL Proj:
Analysis Date: 4/16/2010

Sampling Date 3/30/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for Indirect Prep)

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5	# Structures ≥5μ	Analytical Sensitivity (S/cc)	Total Asbestos Concentration (S/mm^2)	Total Asbestos Concentration (S/cc)
P-CB-033010 *271000044-0001*		1239.00	0.1300		None Detected			0.1500	**<480.00**	**<0.1500**
P-RL-033010 *271000044-0005*		1141.00	0.1300		None Detected			0.1600	**<480.00**	**<0.1600**

Analyst(s)

Roy Pescador (2)

R. K. Mahoney, Laboratory Manager
or other approved signatory

EMSL27 INDIRECT PREPARATION RECORD

EMSL Analytical Inc., Libby, MT

Order ID: 271000044 Date: 4-12-10

Circle One: (TEM Air) TEM Dust TEM Wipes PCM EFA: 360 mm² Prepared By: KB

Sample #	Loose Material	Ashed Samples Resuspension with Ashing			Non-Ashed Samples Resuspension without Ashing			Serial Dilution Filtration 2nd resuspension			3rd resuspension			Prepared for Analysis
		Filter Fraction	Resuspended volume	Vol. applied to filter	Filter Fraction	Resuspended volume	Vol. applied to filter	Vol. of 1st resuspension used	Resuspend volume	Vol. applied to filter	Vol of 2nd resuspension used	Resuspend volume	Vol. applied to filter	
	Y/N	fraction	mL	mL	fraction	mL	mL	mL	mL	mL	mL	mL	mL	Y/N
P-CB-033010	N				1	100	10	10	100	10				
							80			15				Y
										25				
										50				
P-RL-033010	N				1	100	10	10	100	10				
							80			15				Y
										25				
										50				
MB					N/A	100	100							Y

KB 4/12/10

001557

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000044-0001
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-0001
Samples collected 03/30/10

Order ID 271000044

Sample ID: P-CB-033010
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions
INDIRECT PREPPED
15mL 2nd dil

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	H2	ND								F B C M		
	H4	ND								F B C M		
	H6	ND								F B C M		
	H8	ND								F B C M		
	H10	ND								F B C M		
2	F10	ND								F B C M		
	F8	ND								F B C M		
	F6	ND								F B C M		
	F4	ND								F B C M		
	F2	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 1239

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 10
GO Analyzed: 10

Grid Box # 2710-EMR-13 Row 5 Column 1,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 2/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000044-0002
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-0001
Samples collected 03/30/10

Order ID ***271000044***

Sample ID: P-NS-033010
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G3	ND								F B C M		
	G5	ND								F B C M		
	G7	ND								F B C M		
2	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

2nd 4/14/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 1064

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 6
GO Analyzed: 6

Grid Box # 2710 EMR-13 Row 5 Column 3,4
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 2/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000044-0003
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-0001
Samples collected 03/30/10

Order ID ***271000044***

Sample ID: P-BW-033010
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G5	ND								F B C M		
	G7	ND								F B C M		
	G9	ND								F B C M		
2	E6	ND								F B C M		
	E4	ND								F B C M		
	E2	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 1036

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required: 6
GO Analyzed: 6

Grid Box # 2710-EMR-13 Row 5 Column 5,6
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESHDOR Scope 27-2 Date 2/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000044-0004
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-0001
Samples collected 03/30/10

Order ID ***271000044***

Sample ID: P-JB-033010
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	B9	ND								F B C M		
	B7	ND								F B C M		
	B5	ND								F B C M		
2	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: 0.013 mm²
Filter Pore Size (micron): 0.45
GO Required: 6
Sample Volume (L): 1050
GO Analyzed: 6

Grid Box # 2710-EMR-13 Row T Column 1,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PASCADOR Scope 27-2 Date 4/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000044-0005
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-0001
Samples collected 03/30/10

Order ID 271000044

Sample ID: P-RL-033010
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

INDIRECT PREPED
1:5mL, 2nd dilution

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	D10	ND								F B C M		
	D8	ND								F B C M		
	D6	ND								F B C M		
	D4	ND								F B C M		
	D2	ND								F B C M		
2	D9	ND								F B C M		
	D7	ND								F B C M		
	D5	ND								F B C M		
	D3	ND								F B C M		
	D1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/6/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: 0.013 mm²
Filter Pore Size (micron): 0.45
GO Required: 16
Sample Volume (L): 1141
GO Analyzed: 10

Grid Box # 2710-EMR-13 Row I Column 3,4
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. RESCHOCK Scope 27-2 Date 4/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000044-0006
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-0001
Samples collected 03/30/10

Order ID ***271000044***

Sample ID: S-1338W-033010
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G4	ND								F B C M		
	G2	ND								F B C M		
2	G3	ND								F B C M		
	G1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 2100

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 4
GO Analyzed: 4

Grid Box # 2710-EMR-13 Row T Column 5,6
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/14/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000044-0007
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-0001
Samples collected 03/30/10

Order ID ***271000044***

Sample ID: S-1338E-033010
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	F5	ND								F B C M		
	F7	ND								F B C M		
2	I4	ND								F B C M		
	I2	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

AMY 4/10/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: 0.013 mm²
Filter Pore Size (micron): 0.45
GO Required: 4
Sample Volume (L): 2100
GO Analyzed: 4

Grid Box # 2710-EMR-13 Row 4 Column 1,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/10/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000044-0008
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-0001
Samples collected 03/30/10

Order ID ***271000044***

Sample ID: CB-OPEN-033010
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C9	ND								F B C M		
	C7	ND								F B C M		
	C5	ND								F B C M		
	C3	ND								F B C M		
	C1	ND								F B C M		
2	F2	ND								F B C M		
	F4	ND								F B C M		
	F6	ND								F B C M		
	F8	ND								F B C M		
	F10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/14/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L):

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required: 10
GO Analyzed: 10

Grid Box # 2710-EMR-13 Row 11 Column 3,4
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date ~~27~~ 4/14/10

4/14/10

INTERNAL CHAIN OF CUSTODY

4/1/2010 11:38:59 AM

Order ID: 271000032

Attn: Scott Carney
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802
Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**

Customer ID: EMRI78
Customer PO:
Received: 04/01/10 11:15 AM

EMSL Order: 271000032
EMSL Proj ID:
Cust COC ID

Test: TEM AHERA **Matrix** Air **TAT:** 24 Hour **Qty:** 8

Acct Sts: **SIsprsn:** rdemalo **Logged:** rmahoney **Date:** 4/1/2010

BillingFrequency:

Sample Condition: ☐ Acceptable ☐ Unacceptable

Comments

☐ Exempt from prep charge
☐ Exempt from lab opening fee
☐ Exempt from layer/aliquot charges

Prepped: _____ **Date:** 4/1/10
Analyzed: _____ **Date:** 4/2/10
Data Entry: RKm **Date:** 4/5/10
Screened: _____ **Date:** _____
Mailed: _____ **Date:** _____

Special Instructions

Internal Comment

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000032	271000032-0001	P-RH-033010		4/2/2010 11:15:00 AM
271000032	271000032-0002	P-JH-033010		4/2/2010 11:15:00 AM
271000032	271000032-0003	P-BG-033010		4/2/2010 11:15:00 AM
271000032	271000032-0004	P-RF-033010		4/2/2010 11:15:00 AM
271000032	271000032-0005	P-TB-033010		4/2/2010 11:15:00 AM
271000032	271000032-0006	S-1341.8W033010		4/2/2010 11:15:00 AM
271000032	271000032-0007	S1342E033010		4/2/2010 11:15:00 AM
271000032	271000032-0008	BK-033010		4/2/2010 11:15:00 AM

2710-EMR-13 (A-C) 2710-EMR-14 (A-B) L B

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 271000032

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL ANALYTICAL, INC
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 11 E. Superior Street, Suite #260	*Third Party Billing requires written authorization from third party*
City: Duluth / **State/Province: MN**	**Zip/Postal Code: 55802** / **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email / **Purchase Order:**	**U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Mike Mckay / **Samplers Signature:** Mike McKay

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-RH-033010	Ron Hayes-Section Man-MP-1344D-1340B	732	3-30-10
P-JH-033010	John Hobbs-Section Man-MP-1344D-1340B	730	3-30-10
P-BG-033010	Brian Gartman-Group5-MP-1344D-1340B	722	3-30-10
P-RF-033010	Randy Finley-Group5-MP1344D-1340B	728	3-30-10
P-TB-033010	Trevor Beers-Plugger-MP1344D-1340B	748	3-30-10
S-1341.8W033010	MP-1341.8 Westend	2135	3-30-10
S1342E033010	MP-1342 Eastend	2128	3-30-10
BK-033010	BK-Opened	0	3-30-10

Client Sample # (s): Mike Mckay **Total # of Samples:** 8

Relinquished (Client): Mike McKay **Date:** 4-1-10 **Time:** 11:15

Received (Lab): R.K. Mahoney **Date:** 4/1/10 **Time:** 1115

Comments/Special Instructions:

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-RH-033010	Ron Hayes - Section Man - MP - 1344D - 1340B	732	3/30/10 08:01 - 14:07
P-JH-033010	John Hayes Section Man MP 1344D - 1340B	730	3/30/10 08:04 - 14:09
P-BG-033010	Brian Gartman - Group 5 - MP 1344D - 1340B	722	3/30/10 08:05 - 14:06
P-RF-033010	Randy Finley - Group 5 - MP - 1344D - 1340B	728	3/30/10 08:06 - 14:10
P-TB 033010	Trevor Beers - Plugger MP 1344D - 1340B	748	3/30/10 07:59 - 14:13
S-1341.8W033010	MP - 1341.8 - Westend	2135	3/30/10 08:55 - 14:00
S-1342E033010	MP. 1342 - Eastend	2128	3/30/10 08:57 - 14:01
BK-033010	BK - Opened	NA	3/30/10

***Comments/Special Instructions:**

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 3/30/2010

Customer ID: EMRI78
Customer PO:
Received: 04/01/10 11:15 AM
EMSL Order: 271000032

EMSL Proj:
Analysis Date: 4/2/2010

Sampling Date: 3/30/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5μ	# Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-RH-033010 *271000032-0001*		732.00	0.1300		None Detected			0.0040	**<7.70**	**<0.0040**
P-JH-033010 *271000032-0002*		730.00	0.1300		None Detected			0.0041	**<7.70**	**<0.0041**
P-BG-033010 *271000032-0003*		722.00	0.1300		None Detected			0.0041	**<7.70**	**<0.0041**
P-RF-033010 *271000032-0004*		728.00	0.1430		None Detected			0.0037	**<7.00**	**<0.0037**
P-TB-033010 *271000032-0005*		748.00	0.1300		None Detected			0.0040	**<7.70**	**<0.0040**
S-1341.8W033010 *271000032-0006*		2135.00	0.0520		None Detected			0.0035	**<19.00**	**<0.0035**
S1342E033010 *271000032-0007*		2128.00	0.0520		None Detected			0.0035	**<19.00**	**<0.0035**
BK-033010 *271000032-0008*			0.1300		None Detected				**<7.70**	

Analyst(s)

Roy Pescador (8)

R. K. Mahoney, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm^2. This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000032-0001
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001

Order ID **271000032**

Sample ID: P-RH-033010
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G2	ND								F B C M		
	G4	ND								F B C M		
	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
2	B9	ND								F B C M		
	B7	ND								F B C M		
	B5	ND								F B C M		
	B3	ND								F B C M		
	B1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 732

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm² 0.013
GO Required: 10
GO Analyzed: 10

Grid Box # 2710-EMR-13 Row A Column 12
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000032-0002
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001

Order ID **271000032**

Sample ID: P-JH-033010
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C9	ND								F B C M		
	C7	ND								F B C M		
	C5	ND								F B C M		
	C3	ND								F B C M		
	C1	ND								F B C M		
2	H2	ND								F B C M		
	H4	ND								F B C M		
	H6	ND								F B C M		
	H8	ND								F B C M		
	H10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/2/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 730

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 10
GO Analyzed: 10

Grid Box # 2710-2WR-13 Row A Column 3,4
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000032-0003
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001

Order ID 271000032

Sample ID: P-BG-033010
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G2 I2	ND								F B C M		
	I4	ND								F B C M		
	I6	ND								F B C M		
	I8	ND								F B C M		
	I10	ND								F B C M		
2	F9	ND								F B C M		
	F7	ND								F B C M		
	F5	ND								F B C M		
	F3	ND								F B C M		
	F1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/2/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 722

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 10
GO Analyzed: 10

Grid Box # ZNO-EMR-13 Row A Column 5, 6
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000032-0004
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001

Order ID 271000032

Sample ID: P-RF-033010
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G2	ND								F B C M		
	G4	ND								F B C M		
	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
2	G1	ND								F B C M		
	G3	ND								F B C M		
	G5	ND								F B C M		
	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/2/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 728

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 10
GO Analyzed: 10

Grid Box # 2710-EMR-13 Row B Column 1,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000032-0005
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001

Order ID 271000032

Sample ID: P-TB-033010
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	B9	ND								F B C M		
	B7	ND								F B C M		
	B5	ND								F B C M		
	B3	ND								F B C M		
	B1	ND								F B C M		
2	J2	ND								F B C M		
	J4	ND								F B C M		
	J6	ND								F B C M		
	J8	ND								F B C M		
	J10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

NMC 4/2/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 748

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 10
GO Analyzed: 10

Grid Box # 2710-EMR-13 Row B Column 34
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000032-0006
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001

Order ID **271000032**

Sample ID: S-1341.8W033010
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G6	ND								F B C M		
	G8	ND								F B C M		
2	F7	ND								F B C M		
	F9	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/2/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 2135

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 4
GO Analyzed: 4

Grid Box # 2710-EMR-13 Row B Column 5,6
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000032-0007
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001

Order ID **271000032**

Sample ID: S1342E033010
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	D5	ND								F B C M		
	D3	ND								F B C M		
2	B3	ND								F B C M		
	B1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: 0.013 mm²
Filter Pore Size (micron): 0.45
GO Required: 4
Sample Volume (L): 2128
GO Analyzed: 4

Grid Box # 2910-EMR-13 Row C Column 1,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. DESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000032-0008
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001

Order ID 271000032

Sample ID: BK-033010
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	D10	ND								F B C M		
	D8	ND								F B C M		
	D6	ND								F B C M		
	D4	ND								F B C M		
	D2	ND								F B C M		
2	D9	ND								F B C M		
	D7	ND								F B C M		
	D5	ND								F B C M		
	D3	ND								F B C M		
	D1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/2/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L):

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 10
GO Analyzed: 10

Grid Box # 2710-EMR-13 Row C Column 3,4
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

QC

Lab ID:
Client:
Address:

Order ID 271000032
Sample ID: C13
Location:

Received:
TAT:

Results Due

Project:

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G2	ND								F B C M		
	G4	ND								F B C M		
	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
2	C1	ND								F B C M		
	C3	ND								F B C M		
	~~C4~~	4/2/10								F B C M		
	C5	ND								F B C M		
	C7	ND								F B C M		
	C9	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

MB 4/2/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): ____

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 10
GO Analyzed: 16

Grid Box # 2716-EMR-13 Row C Column 5,6
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection: ____

Analyst R. PESCATORE Scope 27-2 Date 4/2/10

INTERNAL CHAIN OF CUSTODY

4/7/2010 2:25:31 PM

Order ID: 271000043

Attn: Scott Carney
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-001**
Samples collected 03/31/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:34 AM

EMSL Order: 271000043
EMSL Proj ID:
Cust COC ID

Test: TEM AHERA **Matrix** Air **TAT:** 24 Hour **Qty:** 8

Acct Sts: **SIsprsn:** rdemalo **Logged:** rpescador **Date:** 4/7/2010

BillingFrequency:

Sample Condition: ☑ Acceptable ☐ Unacceptable

Comments

☐ Exempt from prep charge
☐ Exempt from lab opening fee
☐ Exempt from layer/aliquot charges

Prepped: KB **Date:** 4/12/10
Analyzed: **Date:**
Data Entry: **Date:**
Screened: **Date:**
Mailed: **Date:**

Special Instructions

Internal Comment

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000043	271000043-0001	P-TS-033110 w Attn 4/14/10		4/8/2010 10:34:00 AM
271000043	271000043-0002	P-LS-033110		4/8/2010 10:34:00 AM
271000043	271000043-0003	P-TS-033110		4/8/2010 10:34:00 AM
271000043	271000043-0004	P-JB-033110		4/8/2010 10:34:00 AM
271000043	271000043-0005	P-KK-033110		4/8/2010 10:34:00 AM
271000043	271000043-0006	S-1332W-033110		4/8/2010 10:34:00 AM
271000043	271000043-0007	S-1332E-033110		4/8/2010 10:34:00 AM
271000043	271000043-0008	CB-Open-033110		4/8/2010 10:34:00 AM

2710-EMR-13 (m-o) / 2710-EMR-ARC-14 (I-J)

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 2710000043

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 11 E. Superior Street, Suite #260	*Third Party Billing requires written authorization from third party*
City: Duluth / **State/Province: MN**	**Zip/Postal Code: 55802** / **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email / **Purchase Order:**	**U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Amanda Thornton-DeWitt / **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-TW-033110 ✓	Troy Webster-Group 5 Machines/Pregauger- MP 1331.80-1332.50	996	03-31-10/0802-1638
P-LS-033110 ✓	Lynnard Spiry-Asst. Foreman/ Walking Track-MP 1331.80-1332.50	986	03-31-10/0759-1625
P-TS-033110 ✓	Thomas Swift-Group 5 Machines/Rail Heater/Bomb- MP 1331.80-1332.50	1011	03-31-10/ 0806-1657
P-JB-033110 ✓	Jermel Brown- Cribber Operator- MP 1331.80-1332.50	1000	03-31-10/0804-1644
P-KK-033110 ✓	Kasey Kerwin- Laborer- MP 1331.80-1332.50	965	03-31-10/0810-1615
S-1332W-033110 ✓	Stationary Pump-West End- MP 1332	2280	03-31-10/ 0810-1615
S-1332E-033110 ✓	Stationary Pump- East End- MP 1332	2280	03-31-10/ 0810-1615
CB-Open-033110 ✓	Control Blank- Opened	0	03-31-10/ 1645

Client Sample # (s): Amanda Thornton-DeWitt - **Total # of Samples:** 8

Relinquished (Client): Amanda Thornton-DeWitt **Date:** 04-07-10 **Time:** 1034

Received (Lab): R. K. Mahoney **Date:** 4/7/10 **Time:** 1034

Comments/Special Instructions:

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 03/31/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:34 AM
EMSL Order: 271000043

EMSL Proj:
Analysis Date: 4/15/2010

Sampling Date: 3/31/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ	# Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-TW-033110 *271000043-0001*		996.00	0.0780		None Detected			0.0050	**<13.00**	**<0.0050**
P-LS-033110 *271000043-0002*		986.00	0.0910		None Detected			0.0043	**<11.00**	**<0.0043**
P-TS-033110 *271000043-0003*		1011.00	0.0780		None Detected			0.0049	**<13.00**	**<0.0049**
P-JB-033110 *271000043-0004*		1000.00	0.0780		None Detected			0.0049	**<13.00**	**<0.0049**
P-KK-033110 *271000043-0005*		965.00	0.0910		None Detected			0.0044	**<11.00**	**<0.0044**
S-1332W-033110 *271000043-0006*		2280.00	0.0520		None Detected			0.0032	**<19.00**	**<0.0032**
S-1332E-033110 *271000043-0007*		2280.00	0.0520		None Detected			0.0032	**<19.00**	**<0.0032**
CB-Open-033110 *271000043-0008*			0.1300		None Detected				**<7.70**	

Analyst(s)
Roy Pescador (8)

R. K. Mahoney, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm^2. This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000043-0001
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 03/31/10

Order ID **271000043**

Sample ID: P-TS-033110
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:34 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
2	E6	ND								F B C M		
	E8	ND								F B C M		
	E10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 996

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 6
GO Analyzed: 6

Grid Box # 2710-EMR-13 Row M Column 4,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000043-0002
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 03/31/10

Order ID 271000043

Sample ID: P-LS-033110
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:34 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	H4	ND								F B C M		
	H6	ND								F B C M		
	H8	ND								F B C M		
	H10	ND								F B C M		
2	E6	ND								F B C M		
	E8	ND								F B C M		
	E10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: 0.03 mm²
Filter Pore Size (micron): 0.45
GO Required: 7
Sample Volume (L): 986
GO Analyzed: 7

Grid Box # 2710-EMR-13 Row M Column 3,4
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000043-0003
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 03/31/10

Order ID **271000043**

Sample ID: P-TS-033110
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:34 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	E6	NP								F B C M		
	E8	ND								F B C M		
	E10	ND								F B C M		
2	E5	ND								F B C M		
	E3	ND								F B C M		
	E1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 1011

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 6
GO Analyzed: 6

Grid Box # 2710-EMR-13 Row M Column 5,6
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/5/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000043-0004
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 03/31/10

Order ID **271000043**

Sample ID: P-JB-033110
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:34 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C6	ND								F B C M		
	C8	ND								F B C M		
	C10	ND								F B C M		
2	F5	ND								F B C M		
	F3	ND								F B C M		
	F1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/15/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: 0.013 mm²
Filter Pore Size (micron): 0.45
GO Required: 6
Sample Volume (L): 1000
GO Analyzed: 6

Grid Box # 2710-EMR-13 Row N Column 1,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000043-0005
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 03/31/10

Order ID **271000043**

Sample ID: P-KK-033110
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:34 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G4	ND								F B C M		
	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
2	F5	ND								F B C M		
	F7	ND								F B C M		
	F9	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

MM 4/15/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: mm² 0.013
Filter Pore Size (micron): 0.45
GO Required: 7
Sample Volume (L): 965
GO Analyzed: 7

Grid Box # 2710-EMR-13 Row N Column 3,4
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000043-0006
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 03/31/10

Order ID **271000043**

Sample ID: S-1332W-033110
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:34 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C7	ND								F B C M		
	C9	ND								F B C M		
2	B8	ND								F B C M		
	B10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/15/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 2280

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm² 0.013
GO Required: 54 4/15/10
GO Analyzed: 4

Grid Box # 2710-EMR-13 Row N Column 5,6
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000043-0007
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 03/31/10

Order ID ***271000043***

Sample ID: S-1332E-033110
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:34 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C4	ND								F B C M		
	C2	ND								F B C M		
2	C5	ND								F B C M		
	C3	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

MV 4/15/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 2280

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm² 0.08
GO Required: 4
GO Analyzed: 4

Grid Box # 2710-EMR-13 Row 0 Column 1,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. DESCHODT Scope 27-2 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000043-0008
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 03/31/10

Order ID ***271000043***

Sample ID: CB-OPEN-033110
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:34 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	F9	ND								F B C M		
	F7	ND								F B C M		
	F5	ND								F B C M		
	F3	ND								F B C M		
	F1	ND								F B C M		
2	G2	ND 4/15/10								F B C M		
	G4	ND								F B C M		
	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Any Hits

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L):

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm² 0.013
GO Required: 10
GO Analyzed: 10

Grid Box # 2710-EMR-13 Row 0 Column 3,4
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. DESCHODT Scope 27-2 Date 4/15/10

INTERNAL CHAIN OF CUSTODY

4/1/2010 11:47:00 AM

Order ID: 271000033

Attn: Scott Carney
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-001**
Samples collected 3/31/2010

Customer ID: EMRI78
Customer PO:
Received: 04/01/10 11:15 AM

EMSL Order: 271000033
EMSL Proj ID:
Cust COC ID

Test: TEM AHERA **Matrix** Air **TAT:** 24 Hour **Qty:** 8

Acct Sts: **Slsprsn:** rdemalo **Logged:** rmahoney **Date:** 4/1/2010

BillingFrequency:

Sample Condition: ☐ Acceptable ☐ Unacceptable

Comments

☐ Exempt from prep charge
☐ Exempt from lab opening fee
☐ Exempt from layer/aliquot charges

Prepped: N **Date:** 4/1/10
Analyzed: N **Date:** 4/2/10
Data Entry: RKM **Date:** 4/5/10
Screened: **Date:**
Mailed: **Date:**

Special Instructions

Internal Comment

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000033	271000033-0001	P-EH-033110	DAMAGED - NOT PREPPED	4/2/2010 11:15:00 AM
271000033	271000033-0002	P-JH-033110		4/2/2010 11:15:00 AM
271000033	271000033-0003	P-CC-033110		4/2/2010 11:15:00 AM
271000033	271000033-0004	P-CP-033110		4/2/2010 11:15:00 AM
271000033	271000033-0005	P-AS-033110		4/2/2010 11:15:00 AM
271000033	271000033-0006	S-1339.3W033110		4/2/2010 11:15:00 AM
271000033	271000033-0007	S-1339.4E033110		4/2/2010 11:15:00 AM
271000033	271000033-0008	BK-033110		4/2/2010 11:15:00 AM

2710-EMR-13 (D-F) 2710-EMR-ARC-13 (C-D)

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 271000033

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 11 E. Superior Street, Suite #260	*Third Party Billing requires written authorization from third party*
City: Duluth / **State/Province: MN**	**Zip/Postal Code: 55802** / **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email / **Purchase Order:**	**U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Mike Mckay / **Samplers Signature:** Mike McKay

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-EH-033110	Eric Hofpar-Machine Operator-MP-1340B-1338T Damaged 4/1/10	926	3-31-10 ✓
P-JH-033110	John Hobbs-Section Man-MP-1340B-1338T	918	3-31-10 ✓
P-CC-033110	Clinton Combs-Asst Foreman-MP-1340B-1338T	912	3-31-10 ✓
P-CP-033110	Carson Poore-Trackman-MP-1340B-1338T	912	3-31-10 ✓
P-AS-033110	Andrew Smith-Grinder-MP1340B-1338T	914	3-31-10 ✓
S-1339.3W033110	MP1340B-1338T Westend	2170	3-31-10 ✓
S-1339.4E033110	MP1340B-1338T Eastend	2170	3-31-10 ✓
BK-033110	BK-Opened	0	3-31-10 ✓

Client Sample # (s): Mike Mckay - **Total # of Samples:** 8

Relinquished (Client): Mike McKay **Date:** 4-1-10 **Time:** 11:15

Received (Lab): R. K. Mahoney **Date:** 4/1/10 **Time:** 1115

Comments/Special Instructions:

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-EH-033110	Eric Hofpar-Machine Operator MP1340B-1338T	926	3/31/10 07:57-15:40
P-JH-033110	John Hayes-Section Man-MP 1340B-1338T	918	3/31/10 07:58-15:37
P-CC-033110	Clinton Combs-Asst Foreman-MP1340B-1338T	912	3/31/10 08:00 15:36
P-CP-033110	Carson Poore-Trackman-MP 1340B-1338T	912	3/31/10 08:03-15:39
P-AS-033110	Andrew Smith-Grinder-MP 1340B-1338T	914	3/31/10 08:05-15:42
S1339.3W033110	MP 1340B-1338T-Westend	2170	3/31/10 08:42-13:52
S1339.4E033110	MP 1340B-1338T-Eastend	2170	3/31/10 08:43-13:53
BK-033110	BK Opened	NA	3/31/10

***Comments/Special Instructions:**

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 3/31/2010

Customer ID: EMRI78
Customer PO:
Received: 04/01/10 11:15 AM
EMSL Order: 271000033

EMSL Proj:
Analysis Date: 4/2/2010

Sampling Date: 3/31/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample / Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5μ	# Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-EH-033110 *271000033-0001*	926.00			Filter Damaged					
P-JH-033110 *271000033-0002*	918.00	0.0910		None Detected			0.0046	**<11.00**	**<0.0046**
P-CC-033110 *271000033-0003*	912.00	0.0910		None Detected			0.0046	**<11.00**	**<0.0046**
P-CP-033110 *271000033-0004*	912.00	0.0910		None Detected			0.0046	**<11.00**	**<0.0046**
P-AS-033110 *271000033-0005*	914.00	0.0910		None Detected			0.0046	**<11.00**	**<0.0046**
S-1339.3W033110 *271000033-0006*	2170.00	0.0520		None Detected			0.0034	**<19.00**	**<0.0034**
S-1339.4E033110 *271000033-0007*	2170.00	0.0520		None Detected			0.0034	**<19.00**	**<0.0034**
BK-033110 *271000033-0008*		0.1300		None Detected				**<7.70**	

Analyst(s)

Roy Pescador (7)

R. K. Mahoney, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm^2. This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000033-0001
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 3/31/2010

Order ID ***271000033***

Sample ID: P-EH-033110
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 926

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required:
GO Analyzed:

Grid Box # _____ Row ____ Column ____
Filter Accepted for Analysis: ☐ Yes ☐ No
If no, reason for rejection: _____

Analyst _____ Scope _____ Date _____

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000033-0002
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 3/31/2010

Order ID ***271000033***

Sample ID: P-JH-033110
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	H2	ND								F B C M		
	H4	ND								F B C M		
	H6	ND								F B C M		
	H8	ND								F B C M		
2	H5	ND								F B C M		
	H7	ND								F B C M		
	H9	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 918

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 7
GO Analyzed: 7

Grid Box # 2710-EMR-13 Row D Column 12
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000033-0003
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 3/31/2010

Order ID ***271000033***

Sample ID: P-CC-033110
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	H2	ND								F B C M		
	H4	ND								F B C M		
	H6	ND								F B C M		
	H8	ND								F B C M		
2	A5	ND								F B C M		
	A3	ND								F B C M		
	A1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 912

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 7
GO Analyzed: 7

Grid Box # 2210-EMR-13 Row D Column 3,4
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000033-0004
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 3/31/2010

Order ID ***271000033***

Sample ID: P-CP-033110
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
2	F7	ND								F B C M		
	F5	ND								F B C M		
	F3	ND								F B C M		
	F1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 912

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 7
GO Analyzed: 7

Grid Box # 2710-EMR-13 Row D Column 5,6
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000033-0005
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 3/31/2010

Order ID 271000033

Sample ID: P-AS-033110
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G4	ND								F B C M		
	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
2	C5	ND								F B C M		
	C3	ND								F B C M		
	C1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/2/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 914

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 7
GO Analyzed: 7

Grid Box # 2710-EMR-13 Row E Column 1,2
Filter Accepted for Analysis: ☐ Yes ☐ No
If no, reason for rejection:

Analyst A. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000033-0006
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 3/31/2010

Order ID ***271000033***

Sample ID: S-1339.3W033110
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	D6	ND								F B C M		
	D7	ND								F B C M		
2	I6	ND								F B C M		
	I8	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/2/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: mm²
Filter Pore Size (micron): 0.45
GO Required: 4
Sample Volume (L): 2170
GO Analyzed: 4

Grid Box # 2710-EMR-13 Row E Column 3,4
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000033-0007
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 3/31/2010

Order ID 271000033

Sample ID: S-1339.4E033110
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	D5	ND								F B C M		
	D3	ND								F B C M		
2	G4	ND								F B C M		
	G2	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 2170

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm² 0.013
GO Required: 4
GO Analyzed: 4

Grid Box # 2710-EMR-13 Row E Column 5,6
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/2/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000033-0008
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 3/31/2010

Order ID 271000033

Sample ID: BK-033110
Location:

Received: 01-Apr-10
TAT: 24 Hour

Results Due
Friday, April 02, 2010
11:15 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	F9	ND								F B C M		
	F7	ND								F B C M		
	F5	ND								F B C M		
	F3	ND								F B C M		
	F1	ND								F B C M		
2	D10	ND								F B C M		
	D8	ND								F B C M		
	D6	ND								F B C M		
	D4	ND								F B C M		
	D2	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

MM 4/2/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L):

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 10
GO Analyzed: 10

Grid Box # 2710-EMR-13 Row F Column 12
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 4/2/10 Date 4/2/10

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 271000047

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 11 E. Superior Street, Suite #260	
City: Duluth / **State/Province: MN**	**Zip/Postal Code: 55802** / **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email / **Purchase Order:**	**U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT** (AHERA only)
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Amanda Thornton-DeWitt | **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-BW-040110 ✓	Brant Weisenburger-Truck Driver/ Rail Cutting- MP 1329.81-1330.04/ 1324.49-1324.71	725	04-01-10/0854-1459
P-J B-040110 ✓	Jermel Brown- Cribber Operator- MP 1329.81-1330.04/ 1324.49-1324.71	825	04-01-10/ 0855-1540
P-NS-040110 ✓	Niles Singer- Asst. Foreman/Walking Track- MP 1329.81-1330.04/ 1324.49-1324.71	809	04-01-10/ 0857-1526
P-KK-040110 ✓	Kasey Kerwin- Laborer/ General Tools- MP 1329.81-1330.04/1324.49-1324.71	713	04-01-10/ 0859-1453
P-CB-040110 ✓	Chris Bradford- Driver/ Rail Cutting- MP 1329.81-1330.04/ 1324.49-1324.71	631	04-01-10/0927-1458
S-1329.7W-040110 ✓	Stationary Pump- West End- MP 1329.7 RKM	2225	04-01-10/ 0930-1405
S-1329.7E-040110 ✓	Stationary Pump- East End- MP 1329.7	2225	04-01-10/0930-1405
CB-Open-040110 ✓	Control Blank- Opened	0	04-01-10/ 1600

Client Sample # (s): Amanda Thornton-DeWitt - **Total # of Samples:** 8

Relinquished (Client): Amanda Thornton-DeWitt **Date:** 04-07-10 **Time:** 1025

Received (Lab): RKM Thomas **Date:** 4/7/10 **Time:** 1025

Comments/Special Instructions:

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-001**
Samples collected 04/01/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:25 AM
EMSL Order: 271000047

EMSL Proj:
Analysis Date: 4/20/2010

Sampling Date: 4/1/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ	# Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-BW-040110 *271000047-0001*		725.00	0.1170		None Detected			0.0045	**<8.50**	**<0.0045**
P-JB-040110 *271000047-0002*		825.00	0.1040		None Detected			0.0045	**<9.60**	**<0.0045**
P-NS-040110 *271000047-0003*		809.00	0.1040		None Detected			0.0046	**<9.60**	**<0.0046**
P-KK-040110 *271000047-0004*		713.00	0.1170		None Detected			0.0046	**<8.50**	**<0.0046**
P-CB-040110 *271000047-0005*		631.00	0.1300		None Detected			0.0047	**<7.70**	**<0.0047**
S-1329.7W-040110 *271000047-0006*		2225.00	0.0520		None Detected			0.0033	**<19.00**	**<0.0033**
S-1329.7E-040110 *271000047-0007*		2225.00	0.0520		None Detected			0.0033	**<19.00**	**<0.0033**
CB-Open-040110 *271000047-0008*			0.1300		None Detected				**<7.70**	

Analyst(s)

Ron Mahoney (8)

R. K. Mahoney, Laboratory Manager
or other approved signatory

THIS IS THE LAST PAGE OF THE REPORT.

INTERNAL CHAIN OF CUSTODY

4/5/2010 10:13:59 AM

Order ID: 271000034

Attn: Scott Carney
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802
Fax (218) 625-2337 Phone: (218) 625-2332

Project: 9329-001
Samples collected 4/1/2010

Customer ID: EMRI78
Customer PO:
Received: 04/05/10 9:46 AM

EMSL Order: 271000034
EMSL Proj ID:
Cust COC ID

Test: TEM AHERA **Matrix** Air **TAT:** 24 Hour **Qty:** 8

Acct Sts: **Slsprsn:** rdemalo **Logged:** mahoney **Date:** 4/5/2010

BillingFrequency:

Sample Condition: ☐ Acceptable ☐ Unacceptable

Comments

☐ Exempt from prep charge
☐ Exempt from lab opening fee
☐ Exempt from layer/aliquot charges

Prepped:	MV	**Date:** 4/5/10
Analyzed:	RVm	**Date:** 4/13/10
Data Entry:	KB	**Date:** 4/16/10
Screened:		**Date:**
Mailed:		**Date:**

Special Instructions

Internal Comment

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000034	271000034-0001	P-TB-040110		4/6/2010 9:46:00 AM
271000034	271000034-0002	P-JH-040110		4/6/2010 9:46:00 AM
271000034	271000034-0003	P-RH-040110		4/6/2010 9:46:00 AM
271000034	271000034-0004	P-AG-040110		4/6/2010 9:46:00 AM
271000034	271000034-0005	P-BA-040110		4/6/2010 9:46:00 AM
271000034	271000034-0006	S-1332.0W040110	RD	4/6/2010 9:46:00 AM
271000034	271000034-0007	S-1332.1E040110		4/6/2010 9:46:00 AM
271000034	271000034-0008	BK-040110		4/6/2010 9:46:00 AM

RD 2710-EMR-13 (G-I) 2710-EMR-ARC-14 (E-A)

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 270000134

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 11 E. Superior Street, Suite #260	
City: Duluth / **State/Province: MN**	**Zip/Postal Code: 55802** / **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:** / **U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Mike Mckay / **Samplers Signature:** Mike McKay

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-TB-040110	Trevor Beers-Plugger-MP-1331.8-1332.5	940	4-1-10-08:00-15:50
P-JH-040110	John Hobbs-Section Man-MP-1331.8-1332.5	912	4-1-10-08:01-15:37
P-RH-040110	Ron Hayes-Section Man-MP-1331.8-1332.5	914	4-1-10-08:03-15:40
P-AG-040110	Allen Gehrke-Foreman-MP-1331.8-1332.5	918	4-1-10-08:08-15:47
P-BA-040110	Brian Albro-Truck Driver-MP-1331.8-1332.5	936	4-1-10-08:10-15:58
S-1332.0W040110	MP-1331.8-1332.5-Westend	2380	4-1-10-09:00-14:40
S-1332.1E040110	MP-1331.8-1332.5-Eastend	2394	4-1-10-09:08-14:45
BK-040110	BK-Opened	0	4-1-10

Client Sample # (s): Mike Mckay - **Total # of Samples:** 8

Relinquished (Client): Mike McKay **Date:** 4-5-10 **Time:** 09:46

Received (Lab): R K Mahoney **Date:** 4/5/10 **Time:** 0941

Comments/Special Instructions:

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-0066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 4/1/2010

Customer ID: EMRI78
Customer PO:
Received: 04/05/10 9:46 AM
EMSL Order: 271000034

EMSL Proj:
Analysis Date: 4/15/2010

Sampling Date: 4/1/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample / Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ	# Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-TB-040110 *271000034-0001*	940.00	0.0910		None Detected			0.0045	<11.00	<0.0045
P-JH-040110 *271000034-0002*	912.00	0.0910		None Detected			0.0046	<11.00	<0.0046
P-RH-040110 *271000034-0003*	914.00	0.0910		None Detected			0.0046	<11.00	<0.0046
P-AG-040110 *271000034-0004*	918.00	0.0910		None Detected			0.0046	<11.00	<0.0046
P-BA-040110 *271000034-0005*	936.00	0.0910		None Detected			0.0045	<11.00	<0.0045
S-1332.0W040110 *271000034-0006*	2380.00	0.0520		None Detected			0.0031	<19.00	<0.0031
S-1332.1E040110 *271000034-0007*	2394.00	0.0520		None Detected			0.0031	<19.00	<0.0031
BK-040110 *271000034-0008*		0.1300		None Detected				<7.70	

Analyst(s)
Ron Mahoney (8)

R. K. Mahoney, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm^2. This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, Libby MT NVLAP Lab Code 200745-0

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000034-0001
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/1/2010

Order ID 271000034
Sample ID: P-TB-040110
Location:

Received: 05-Apr-10
TAT: 24 Hour
Results Due
Tuesday, April 06, 2010
9:46 AM

Special Instructions

NSD = No Structures Detected Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	E4	ND								F B C M		
	C4	ND								F B C M		
	C1	ND								F B C M		
	B2	ND								F B C M		
2	D6	ND								F B C M		
	A7	ND								F B C M		
	A5	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1 Gypsum
- ☐ (2 Glass
- ☐ (3 Cellulose
- ☐ (4 Organic Fibers
- ☐ (5 Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 940
TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required: 7
GO Analyzed: 7

Grid Box # 270-EMB-13 Row G Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst RKem Scope 27-1 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000034-0002
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/1/2010

Order ID 271000034

Sample ID: P-JH-040110
Location:

Received: 05-Apr-10
TAT: 24 Hour

Results Due
Tuesday, April 06, 2010
9:46 AM

Special Instructions:

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G2	ND								F B C M		
	G4	ND								F B C M		
	G6	ND								F B C M		
	G8	ND								F B C M		
2	J6	ND								F B C M		
	J4	ND								F B C M		
	J2	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
						RCM 4/15/10				F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 912

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required: 7
GO Analyzed: 7

Grid Box # 3710-BMA-13 Row G Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst RCM Scope 27-1 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000034-0003
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/1/2010

Order ID 271000034
Sample ID: P-RH-040110
Location:

Received: 05-Apr-10
TAT: 24 Hour
Results Due
Tuesday, April 06, 2010
9:46 AM

Special Instructions

NSD = No Structures Detected Structure Types: {F = Fiber, B = Bundle, C = Cluster, M = Matrix}

Grid I.D.	G.O. I.D.	Structure Number	ED OBSERVATION: Non Asbestos	Chrys	Amphi	Sketch	LENGTH: ≥0.5 µm < 5 µm	≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	F2	ND								F B C M		
	F4	ND								F B C M		
	F6	ND								F B C M		
	F8	ND								F B C M		
2	J7	ND								F B C M		
	J5	ND								F B C M		
	J3	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

RKM 4/15/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1 Gypsum
- ☐ (2 Glass
- ☐ (3 Cellulose
- ☐ (4 Organic Fibers
- ☐ (5 Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 914
TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required: 7
GO Analyzed:

Grid Box # 2710-EMA-13 Row G Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst RKM Scope 27-1 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000034-0004
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/1/2010

Order ID 271000034
Sample ID: P-AG-040110
Location:

Received: 05-Apr-10
TAT: 24 Hour
Results Due
Tuesday, April 06, 2010
9:46 AM

Special Instructions

NSD = No Structures Detected Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C4	ND								F B C M		
	C6	ND								F B C M		
	C8	ND								F B C M		
	C10	ND								F B C M		
2	I7	ND								F B C M		
	I5	ND								F B C M		
	I3	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
						RLm 4/15/10				F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing
- ☐ _____

Filter Type: MCE TEM Voltage (kv): 100
Filter Size (mm): 25 Magnification (X): 19K
EFA (sq.mm): 385 Grid Opening Area: mm²
Filter Pore Size (micron): 0.45 GO Required: 7
Sample Volume (L): 918 GO Analyzed: 7
Grid Box # 2710-CMB-13 Row H 6 RLm 4/15/10 Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst RLm Scope 27-1 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000034-0005
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/1/2010

Order ID 271000034
Sample ID: P-BA-040110
Location:

Received: 05-Apr-10
TAT: 24 Hour
Results Due
Tuesday, April 06, 2010
9:46 AM

Special Instructions

NSD = No Structures Detected Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	D2	ND								F B C M		
	D4	ND								F B C M		
	D6	ND								F B C M		
	D8	ND								F B C M		
2	H4	ND								F B C M		
	H6	ND								F B C M		
	H8	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
						RKm 4/15/10				F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

Asbestos Fibers Present
- [ ] Chrysotile
- [ ] Anthophyllite
- [ ] Amosite
- [ ] Crocidolite
- [ ] Actinolite
- [ ] Tremolite

Nonasbestos Fibers Present
- [ ] (1) Gypsum
- [ ] (2) Glass
- [ ] (3) Cellulose
- [ ] (4) Organic Fibers
- [ ] (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 938
TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required: 7
GO Analyzed:

Grid Box # 2.7/0 - EMR - 13 Row H Column
Filter Accepted for Analysis: [x] Yes [ ] No
If no, reason for rejection:

Analyst RKm Scope 27-1 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000034-0006
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/1/2010

Order ID 271000034
Sample ID: S-1332.0W040110
Location:

Received: 05-Apr-10
TAT: 24 Hour
Results Due
Tuesday, April 06, 2010
9:46 AM

Special Instructions

NSD = No Structures Detected Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C3	ND								F B C M		
	C5	ND								F B C M		
2	C3	ND								F B C M		
	C5	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

R/CM 4/15/10

Asbestos Fibers Present
- [ ] Chrysotile
- [ ] Anthophyllite
- [ ] Amosite
- [ ] Crocidolite
- [ ] Actinolite
- [ ] Tremolite

Nonasbestos Fibers Present
- [ ] (1) Gypsum
- [ ] (2) Glass
- [ ] (3) Cellulose
- [ ] (4) Organic Fibers
- [ ] (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 2380
TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required: 4
GO Analyzed:
Grid Box # 2710-EMR-13 Row H Column
Filter Accepted for Analysis: [X] Yes [ ] No
If no, reason for rejection:

Analyst R/CM Scope 27-1 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000034-0007
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/1/2010

Order ID 271000034
Sample ID: S-1332.IE040110
Location:

Received: 05-Apr-10
TAT: 24 Hour
Results Due
Tuesday, April 06, 2010
9:46 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C4	ND								F B C M		
	C6	ND								F B C M		
2	C6	ND								F B C M		
	C4	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

RMM 4/15/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE TEM Voltage (kv): 100
Filter Size (mm): 25 Magnification (X): 19K
EFA (sq.mm): 385 Grid Opening Area: mm²
Filter Pore Size (micron): 0.45 GO Required: 4
Sample Volume (L): 2394 GO Analyzed: 4
Grid Box # 3710-EMR-13 Row 1 Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst RMM Scope 27-1 Date 4/15/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000034-0008
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/1/2010

Order ID 271000034
Sample ID: BK-040110
Location:

Received: 05-Apr-10
TAT: 24 Hour
Results Due
Tuesday, April 06, 2010
9:46 AM

Special Instructions

NSD = No Structures Detected Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	A1	ND								F B C M		
	A3	ND								F B C M		
	A5	ND								F B C M		
	A7	ND								F B C M		
	C3	ND								F B C M		
2	G2	ND								F B C M		
	G4	ND								F B C M		
	G6	ND								F B C M		
	G8	ND								F B C M		
	H3	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

4/15/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 0
TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required: 10
GO Analyzed: 10
Grid Box # 2210-EMA-13 Row I Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst RCM Scope 27-1 Date 4/15/10

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-001**
Samples collected 04/05/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:31 AM
EMSL Order: 271000045

EMSL Proj:
Analysis Date: 4/16/2010

Sampling Date: 4/5/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample / Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5μ	# Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-NS-040510 *271000045-0001*	969.00			Overloaded					
P-BW-040510 *271000045-0002*	973.00			Overloaded					
P-TW-040510 *271000045-0003*	975.00	0.0910		None Detected			0.0043	**<11.00**	**<0.0043**
P-JB-040510 *271000045-0004*	974.00	0.0910		None Detected			0.0043	**<11.00**	**<0.0043**
P-TS-040510 *271000045-0005*	968.00	0.0910		None Detected			0.0044	**<11.00**	**<0.0044**
S-1311W-040510 *271000045-0006*	2250.00	0.0520		None Detected			0.0033	**<19.00**	**<0.0033**
S-1311E-040510 *271000045-0007*	2250.00	0.0520		None Detected			0.0033	**<19.00**	**<0.0033**
CB-Open--040510 *271000045-0008*		0.1300		None Detected				**<7.70**	

Analyst(s)

Roy Pescador (7)

R. K. Mahoney

R. K. Mahoney, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-001**
Samples collected 04/05/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:31 AM
EMSL Order: 271000045

EMSL Proj:
Analysis Date: 4/16/2010

Sampling Date: 4/5/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for Indirect Prep)

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5μ	# Structures ≥5μ	Analytical Sensitivity (S/cc)	Total Asbestos Concentration (S/mm^2)	Total Asbestos Concentration (S/cc)
P-NS-040510 *271000045-0001*		969.00	0.1300		None Detected			0.0290	**<72.00**	**<0.0290**
P-BW-040510 *271000045-0002*		973.00	0.1300		None Detected			0.0110	**<29.00**	**<0.0110**

Analyst(s)

Roy Pescador (2)

R. K. Mahoney, Laboratory Manager
or other approved signatory

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 271000645

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 11 E. Superior Street, Suite #260	
City: Duluth **State/Province: MN**	**Zip/Postal Code: 55802** **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email **Purchase Order:**	**U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT** (AHERA only)
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Amanda Thornton-DeWitt **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-NS-040510 ✓	NilesSinger- Assistant Foreman/ Walking Track- MP 1310.80-1311.60	969	04-05-10/0851-1700
P-BW-040510 ✓	Brant Weisenburger- Laborer/ Clipper Operator- MP 1310.80-1311.60	973	04-05-10/ 0853-1706
P-TW-040510 ✓	Troy Webster- Group 5 Machine Operator/ Pregauger- MP 1310.80-1311.60	975	04-05-10/ 0855-1711
P-JB-040510 ✓	Jermel Brown- Crib Razzer/ Cribber- MP 1310.80-1311.60	974	04-05-10/0857-1712
P-TS-040510 ✓	Thomas Swift- Group 5 Machine Operator/ Rail Heater/ Bomb- MP 1310.80-1311.60	968	04-05-10/ 0858-1705
S-1311W-040510 ✓	Stationary Pump- West End- MP 1311	2250	04-05-10/ 1000-1500
S-1311E-040510 ✓	Stationary Pump- East End- MP 1311	2250	04-05-10/ 1000- 1500
CB-Open-040510 ✓	Control Blank Opened	0	04-05-10/1400

Client Sample # (s): Amanda Thornton-DeWitt - **Total # of Samples:** 8

Relinquished (Client): Amanda Thornton-DeWitt **Date:** ~~04-05-10~~ 04-07-10 **Time:** 1031

Received (Lab): R. K. Mahony **Date:** 4/7/10 **Time:** 1031

Comments/Special Instructions:

INTERNAL CHAIN OF CUSTODY

4/6/2010 11:01:18 AM

Order ID: 271000038

Attn: Scott Carney
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802
Fax: (218) 625-2337 Phone: (218) 625-2332

Project: 9329-001
Samples collected 4/5/2010

Customer ID: EMRI78
Customer PO:
Received: 04/06/10 8:58 AM

EMSL Order: 271000038
EMSL Proj ID:
Cust COC ID

Test: TEM AHERA **Matrix** Air **TAT:** 24 Hour **Qty:** 8

Acct Sts: **Sisprsn:** rdemalo **Logged:** rmahoney **Date:** 4/6/2010

BillingFrequency:

Sample Condition: ☒ Acceptable ☐ Unacceptable

Comments

☐ Exempt from prep charge
☐ Exempt from lab opening fee
☐ Exempt from layer/aliquot charges

Prepped: [signature] **Date:** 4/7/10
Analyzed: [signature] **Date:** 4/15/10
Data Entry: **Date:**
Screened: **Date:**
Mailed: **Date:**

Special Instructions

Internal Comment

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000038	271000038-0001	P-TC-040510		4/7/2010 8:58:00 AM
271000038	271000038-0002	P-AS-040510		4/7/2010 8:58:00 AM
271000038	271000038-0003	P-DT-040510		4/7/2010 8:58:00 AM
271000038	271000038-0004	P-CP-040510		4/7/2010 8:58:00 AM
271000038	271000038-0005	P-RF-040510		4/7/2010 8:58:00 AM
271000038	271000038-0006	S-1324-09W040510		4/7/2010 8:58:00 AM
271000038	271000038-0007	S-1324.1E040510 (RD)		4/7/2010 8:58:00 AM
271000038	271000038-0008	BK-040510		4/7/2010 8:58:00 AM

2710-EMR-13(J-L) 2710-EMR-ARC-14(GH) LB/RD

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 271000038

EMSL ANALYTICAL, INC
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc		**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments" *Third Party Billing requires written authorization from third party*	
Street: 11 E. Superior Street, Suite #260			
City: Duluth	**State/Province: MN**	**Zip/Postal Code: 55802**	**Country: USA**
Report To (Name): Scott Carney		**Fax #: (218) 625-2337**	
Telephone #: (218) 625-2332 x 303		**Email Address: carney@emr-inc.com**	
Project Name/Number: 9329-001			
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:**	**U.S. State Samples Taken: Montana**	

Turnaround Time (TAT) Options" – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

"For TEM Air 3 hours/6 hours, please call ahead to schedule. "There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM - Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Mike Mckay **Samplers Signature:** Mike Mckay

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-TC-040510 ✓	Tony Cox-Group-5-MP-1330-1332	860	4-5-10-08:00-15:10
P-AS-040510 ✓	Andrew Smith-Grinder-MP1330-1332	924	4-5-10-07:56-15:38
P-DT-040510 ✓	Doug Throop-Labor-MP1330-1332	894	4-5-10-07:53-15:20
P-CP-040510 ✓	Carson Poore-Trackman-MP1330-1332	858	4-5-10-07:54-15:03
P-RF-040510 ✓	Randy Finley-Group-5-MP-1330-1332	916	4-5-10-07:58-15:36
S-1324-09W040510 ✓	MP-1330-1332-Westend	2772	4-5-10-08:20-14:56
S-1324.1E040510 ✓	MP-1330-1332-Eastend	2765	4-5-10-08:24-14:59
BK-040510 ✓	BK-Opened	0	4-5-10

Client Sample # (s): Mike Mckay - **Total # of Samples:** 8

Relinquished (Client): Mike McKay **Date:** 4-6-10 **Time:** 08:58

Received (Lab): K. Mahoney **Date:** 4/6/10 **Time:** 0858

Comments/Special Instructions:

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: E-mail: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 4/5/2010

Customer ID: EMRI78
Customer PO:
Received: 04/06/10 8:58 AM
EMSL Order: 271000038

EMSL Proj:
Analysis Date: 4/15/2010

Sampling Date:

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample / Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ	# Structures ≥ 5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-TC-040510 *271000038-0001*	860.00	0.0910		None Detected			0.0049	<11.00	<0.0049
P-AS-040510 *271000038-0002*	924.00	0.0910		None Detected			0.0046	<11.00	<0.0046
P-DT-040510 *271000038-0003*	894.00	0.0910		None Detected			0.0047	<11.00	<0.0047
P-CP-040510 *271000038-0004*	858.00	0.0910		None Detected			0.0049	<11.00	<0.0049
P-RF-040510 *271000038-0005*	916.00	0.0910		None Detected			0.0046	<11.00	<0.0046
S-1324-09W040510 *271000038-0006*	2772.00	0.0520		None Detected			0.0027	<19.00	<0.0027
S-1324.1E040510 *271000038-0007*	2765.00	0.0520		None Detected			0.0027	<19.00	<0.0027
BK-040510 *271000038-0008*		0.1300		None Detected				<7.70	

Analyst(s)
Roy Pescador (6)

R. K. Mahoney, Laboratory Manager
or other approved signatory

THIS IS THE LAST PAGE OF THE REPORT.

Lab ID: 271000038-0001
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/5/2010

Order ID 271000038
Sample ID: P-TC-040510
Location:

Received: 06-Apr-10
TAT: 24 Hour
Results Due
Wednesday, April 07, 2010
8:58 AM

Special Instructions

NSD = No Structures Detected Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	B7	ND								F B C M		
	B5	ND								F B C M		
	B3	ND								F B C M		
2	B3	ND								F B C M		
	B5	ND								F B C M		
	B7	ND								F B C M		
	B9	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

4/11/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 880
TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 7
GO Analyzed: 7
Grid Box # 2710-2MR-13 Row J Column 1,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/12/10

Lab ID: 271000038-0002
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Order ID 271000038

Sample ID: P-AS-040510
Location:

Received: 06-Apr-10
TAT: 24 Hour

Results Due
Wednesday, April 07, 2010
8:58 AM

Project: 9329-001
Samples collected 4/5/2010

Special Instructions

NSD = No Structures Detected   Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys., Amo., Etc.
1	H3	ND								F B C M		
	H5	ND								F B C M		
	H7	ND								F B C M		
	H9	ND								F B C M		
2	E6	ND								F B C M		
	E8	ND								F B C M		
	E10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- [ ] Chrysotile
- [ ] Anthophyllite
- [ ] Amosite
- [ ] Crocidolite
- [ ] Actinolite
- [ ] Tremolite

Nonasbestos Fibers Present
- [ ] (1) Gypsum
- [ ] (2) Glass
- [ ] (3) Cellulose
- [ ] (4) Organic Fibers
- [ ] (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 924
TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm² 0.013
GO Required: 7
GO Analyzed: 7

Grid Box # 2710-SMR-13 Row J Column 3,4
Filter Accepted for Analysis: [x] Yes [ ] No
If no, reason for rejection:

Analyst R. Pescador   Scope 27-2   Date 4/15/10

Lab ID: 271000038-0003
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/5/2010

Order ID 271000038

Sample ID: P-DT-040510
Location:

Received: 06-Apr-10
TAT: 24 Hour

Results Due
Wednesday, April 07, 2010
8:58 AM

Special Instructions

NSD = No Structures Detected Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys., Amo., Etc.
1	F6	ND								F B C M		
	F4	ND								F B C M		
	F2	ND								F B C M		
2	D7	ND								F B C M		
	D5	ND								F B C M		
	D3	ND								F B C M		
	D1	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- [ ] Chrysotile
- [ ] Anthophyllite
- [ ] Amosite
- [ ] Crocidolite
- [ ] Actinolite
- [ ] Tremolite

Nonasbestos Fibers Present
- [ ] (1) Gypsum
- [ ] (2) Glass
- [ ] (3) Cellulose
- [ ] (4) Organic Fibers
- [ ] (5) Fibers Containing ______

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: mm² 0.013
Filter Pore Size (micron): 0.45
GO Required: 7
Sample Volume (L): 894
GO Analyzed: 7

Grid Box # 2710-EMR-13 Row J Column 5,6
Filter Accepted for Analysis: [ ] Yes [ ] No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/15/10

AHERA7.9.0

Lab ID: 271000038-0004
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/5/2010

Order ID 271000038
Sample ID: P-CP-040510
Location:

Received: 06-Apr-10
TAT: 24 Hour
Results Due
Wednesday, April 07, 2010
8:58 AM

Special Instructions

NSD = No Structures Detected *Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }*

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	F5	ND								F B C M		
	F7	ND								F B C M		
	F9	ND								F B C M		
2	F4	ND								F B C M		
	F6	ND								F B C M		
	F8	ND								F B C M		
	F10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 858

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 7
GO Analyzed: 7

Grid Box # 2710-EMR-13 Row K Column 1,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/15/10

Lab ID: 271000038-0005
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/5/2010

Order ID 271000038
Sample ID: P-RF-040510
Location:

Received: 06-Apr-10
TAT: 24 Hour

Results Due
Wednesday, April 07, 2010
8:58 AM

Special Instructions

NSD = No Structures Detected Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amph	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amp., Etc.
1	G4	ND								F B C M		
	G6	ND								F B C M		
	G8	ND								F B C M		
	G10	ND								F B C M		
2	E6	ND								F B C M		
	E8	ND								F B C M		
	E10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

ND 4/15/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 916

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 7
GO Analyzed: 7

Grid Box # 2710-EMR-13 Row K Column 3,4
Filter Accepted for Analysis: ☐ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope ZZ-2 Date 4/15/10

Lab ID: 271000038-0006
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/5/2010

Order ID 271000038
Sample ID: S-1324-09W040510
Location:

Received: 06-Apr-10
TAT: 24 Hour
Results Due
Wednesday, April 07, 2010
8:58 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amp., Etc.
1	1	ND								F B C M		
	2	ND								F B C M		
2	1	ND								F B C M		
	3	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 2772
TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 4
GO Analyzed: 4
Grid Box # 2710-EMR-13 Row K Column 5,6
Filter Accepted for Analysis: ☐ Yes ☐ No
If no, reason for rejection:

Analyst R. PESCADOR Scope 27-2 Date 4/15/10

Lab ID: 271000038-0007
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/5/2010

Order ID 271000038
Sample ID: S-1324.1E040510
Location:

Received: 06-Apr-10
TAT: 24 Hour
Results Due
Wednesday, April 07, 2010
8:58 AM

Special Instructions

NSD = No Structures Detected Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	HH	ND								F B C M		
	HG	ND								F B C M		
2	AG	ND								F B C M		
	AH	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

AH 4/15/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing _____

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: 4013 mm²
Filter Pore Size (micron): 0.45
GO Required: 4
Sample Volume (L): 2765
GO Analyzed: 4
Grid Box # 2710-EMR-13 Row L Column 1,2
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection: _____

Analyst R. PESCADOR Scope 27-2 Date 4/15/10

Lab ID: 271000038-0008
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 4/5/2010

Order ID 271000038
Sample ID: BK-040510
Location:

Received: 06-Apr-10
TAT: 24 Hour
Results Due
Wednesday, April 07, 2010
8:58 AM

Special Instructions

NSD = No Structures Detected | Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	D10	ND								F B C M		
	D8	ND								F B C M		
	D6	ND								F B C M		
	D4	ND								F B C M		
	D2	ND								F B C M		
2	B2	ND								F B C M		
	B4	ND								F B C M		
	B6	ND								F B C M		
	B8	ND								F B C M		
	B10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

DEBRIS FIELD

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing _____

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L):
TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013 mm²
GO Required: 10
GO Analyzed: 10
Grid Box # 2710-EMR-13 Row L Column 34
Filter Accepted for Analysis: ☐ Yes ☐ No
If no, reason for rejection:

Analyst K. PESCHONG Scope 27-2 Date 4/12/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

QC (LB)

Lab ID:
Client: EMR, Inc.
Address:

Order ID 2710000038

Sample ID:
Location:

Received:
TAT: Results Due

Project 9329-001

Special Instructions

NSD = No Structures Detected Structure Types: (F = Fiber, B = Bundle, C = Cluster, M = Matrix)

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amp., Etc.
1	D9	ND								F B C M		
	D7	ND								F B C M		
	D5	ND								F B C M		
	D3	ND								F B C M		
	D1	ND								F B C M		
2	C7	ND								F B C M		
	C5	ND								F B C M		
	C4	ND								F B C M		
	C8	ND								F B C M		
	C10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE TEM Voltage (kV): 100
Filter Size (mm): 25 Magnification (X): 19K
EFA (sq.mm): 385 Grid Opening Area: 0.013mm²
Filter Pore Size (micron): 0.45 GO Required: 16
Sample Volume (L): 1323 GO Analyzed: 16
Grid Box #: 2710-end-13 Row: 4 Column: 5,6
Filter Accepted for Analysis: ☑ Yes ☐ No
If no, reason for rejection:

Analyst: R. Pearson Scope: 27-2 Date: 4/15/10

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 271000048

EMSL ANALYTICAL, INC
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 11 E. Superior Street, Suite #260	*Third Party Billing requires written authorization from third party*
City: Duluth / **State/Province: MN**	**Zip/Postal Code: 55802** / **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email / **Purchase Order:**	**U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Mike Mckay / **Samplers Signature:** Mike McKay

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-TB-040610	Trevor Beers-Plugger-MP-1322.06-1322.38 RKm	624	4-6-10-07:49-13:01
P-CP-040610	Carson Poore-Trackman-MP-1322.06-1322.38	760	4-6-10-07:52-14:12
P-SH-040610	Sean Hunter-Machine Operator-MP-1322.06-1322.38	758	4-6-10-07:57-14:16
P-RF-040610	Randy Finley-Group-5-MP-1322.06-1322.38	776	4-6-10-07:58-14:26
P-RT-040610	Ryan Tucker-Welder-MP-1322.06-1322.38	788	4-6-10-07:56-14:30
S-1322.06W040610	MP-1322.06-1322.38-Westend.	2226	4-6-10-08:39-13:57
S-1322.07E040610	MP-1322.06-1322.38-Eastend.	2212	4-6-10-08:43-13:59
BK-040610	BK-Opened	0	4-6-10

Client Sample # (s): Mike Mckay - **Total # of Samples:** 8

Relinquished (Client): Mike McKay **Date:** 4-7-10 **Time:** 15:19

Received (Lab): [signature] **Date:** 4/7/10 **Time:** 15:19hr

Comments/Special Instructions:

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 040610

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 3:19 PM
EMSL Order: 271000048

EMSL Proj:
Analysis Date: 4/22/2010

Sampling Date: 4/6/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ	# Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-TB-040610 *271000048-0001*		624.00	0.1300		None Detected			0.0047	**<7.70**	**<0.0047**
P-CP-040610 *271000048-0002*		760.00	0.1040		None Detected			0.0049	**<9.60**	**<0.0049**
P-SH-040610 *271000048-0003*		758.00	0.1040		None Detected			0.0049	**<9.60**	**<0.0049**
P-RF-040610 *271000048-0004*		776.00	0.1040		None Detected			0.0048	**<9.60**	**<0.0048**
P-RT-040610 *271000048-0005*		788.00			Overloaded					
S-1322.06W040610 *271000048-0006*		2226.00	0.0520		None Detected			0.0033	**<19.00**	**<0.0033**
S-1322.07E040610 *271000048-0007*		2212.00	0.0520		None Detected			0.0033	**<19.00**	**<0.0033**
BK-040610 *271000048-0008*			0.1300		None Detected				**<7.70**	

Analyst(s)

Roy Pescador (7)

R. K. Mahoney, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 040610

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 3:19 PM
EMSL Order: 271000048

EMSL Proj:
Analysis Date: 4/22/2010

Sampling Date: 4/6/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for Indirect Prep)

Sample	*Location*	*Volume (Liters)*	*Area Analyzed (mm^2)*	*Non Asb*	*Asbestos Type(s)*	*# Structures* $\geq 0.5\mu < 5\mu$	*# Structures* $\geq 5\mu$	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm^2)*	*Total Asbestos Concentration (S/cc)*
P-RT-040610 *271000048-0005*		788.00	0.1300		None Detected			0.0350	**<72.00**	**<0.0350**

Analyst(s)

Roy Pescador (1)

R. K. Mahoney, Laboratory Manager
or other approved signatory

INTERNAL CHAIN OF CUSTODY

4/7/2010 2:12:37 PM

Order ID: 271000042

Attn: Scott Carney
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-001**
Samples collected 04/06/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:35 AM

EMSL Order: 271000042
EMSL Proj ID:
Cust COC ID

Test: TEM AHERA **Matrix** Air **TAT:** 24 Hour **Qty:** 8

Acct Sts: **SIsprsn:** rdemalo **Logged:** rpescador **Date:** 4/7/10

BillingFrequency:

Sample Condition: ☑ Acceptable ☐ Unacceptable

Comments

☐ Exempt from prep charge
☐ Exempt from lab opening fee
☐ Exempt from layer/aliquot charges

Prepped: KB **Date:** 4/12/10
Analyzed: RKm **Date:** 4/16/10
Data Entry: RKm **Date:** 4/16/10
Screened: **Date:**
Mailed: **Date:**

Special Instructions

Internal Comment

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000042	271000042-0001	P-BW-040610	Damaged	4/8/2010 10:35:00 AM
271000042	271000042-0002	P-JB-040610		4/8/2010 10:35:00 AM
271000042	271000042-0003	P-NS-040610		4/8/2010 10:35:00 AM
271000042	271000042-0004	P-CB-040610 OL	15mL, 2nd dilution	4/8/2010 10:35:00 AM
271000042	271000042-0005	P-TA-040610	Damaged	4/8/2010 10:35:00 AM
271000042	271000042-0006	S-1309W-040610		4/8/2010 10:35:00 AM
271000042	271000042-0007	S-1309E-040610		4/8/2010 10:35:00 AM
271000042	271000042-0008	CB-Open-040610		4/8/2010 10:35:00 AM

2710 - EMR-113 (P-R) / 2710-EMR-ARC-14 (K)

LB, RP

INTERNAL CHAIN OF CUSTODY

4/16/2010 8:22:57 AM

Order ID: 271000042

Attn: Scott Carney
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-001**
Samples collected 04/06/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:35 AM

EMSL Order: 271000042
EMSL Proj ID:
Cust COC ID

Test: **TEM AHERA (Indirect)** **Matrix** Air **TAT:** 24 Hour **Qty:** 1

Acct Sts: **Slsprsn:** rdemalo **Logged:** rpescador **Date:** 4/7/2010

BillingFrequency:

Sample Condition: ☐ Acceptable ☐ Unacceptable

Comments

☐ Exempt from prep charge
☐ Exempt from lab opening fee
☐ Exempt from layer/aliquot charges

Prepped: _____ **Date:** _____
Analyzed: _____ **Date:** _____
Data Entry: _____ **Date:** _____
Screened: _____ **Date:** _____
Mailed: _____ **Date:** _____

Special Instructions

Internal Comment

Order ID	Lab Sample #	Cust. Sample #	Location	Due Date
271000042	271000042-0004	P-CB-040610		4/8/2010 10:35:00 AM

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 2710000042

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 11 E. Superior Street, Suite #260	*Third Party Billing requires written authorization from third party*
City: Duluth / **State/Province: MN**	**Zip/Postal Code: 55802** / **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email / **Purchase Order:**	**U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT** (AHERA only)
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Amanda Thornton-DeWitt | **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
Damaged P-BW-040610 ✓	Brant Weisenburger- Clipper Operator/Walking Track-MP 1309.20-1309.54/ 1308.74-1308.92	870	04-06-10/0854-1625
P-JB-040610 ✓	Jermel Brown-Cribber Operator-MP 1309.20-1309.54/ 1308.74-1308.92	884	04-06-10 / 0856-1640
P-NS-040610 ✓	Niles Singer- Asst. Foreman/ Walking Track- MP1309.20-1309.54/ 1308.74-1308.92	872	04-06-10/ 0858-1630
P-CB-040610 ✓	Chris Bradford- Truck Driver/ Cutting Rail- MP 1309.20-1309.54/ 1308.74-1308.92	860	04-06-10/ 0900-1620
Damaged P-TA-040610 ✓	Tyler Annala- Group 5 Machine Operator/ SARS Machine- MP 1309.20-1309.54/ 1308.74-1308.92	865	04-06-10/ 0902-1627
S-1309W-040610 ✓	Stationary Pump- West End- MP1309	1806	04-06-10/ 0930-1336
S-1309E-040610 ✓	Stationary Pump-East End- MP 1309	1816	04-06-10/ 0920-1336
CB-Open-040610 ✓	Control Blank- Opened	0	04-06-10/ 1700

Client Sample # (s): Amanda Thornton-DeWitt - **Total # of Samples:** 8

Relinquished (Client): Amanda Thornton-DeWitt **Date:** 04-07-10 **Time:** 1035

Received (Lab): R.K. Mahoney **Date:** 4/7/10 **Time:** 1035

Comments/Special Instructions:

EMSL27 INDIRECT PREPARATION RECORD

EMSL Analytical Inc., Libby, MT

Order ID: 27100042

Date: 4-12-10

Circle One: (TEM Air) TEM Dust TEM Wipes PCM

EFA: 360 mm²

Prepared By: KB

Sample #	Loose Material	Ashed Samples Resuspension with Ashing			Non-Ashed Samples Resuspension without Ashing			Serial Dilution Filtration 2nd resuspension			Serial Dilution Filtration 3rd resuspension			Prepared for Analysis
		Filter Fraction	Resuspended volume	Vol. applied to filter	Filter Fraction	Resuspended volume	Vol. applied to filter	Vol. of 1st resuspension used	Resuspend volume	Vol. applied to filter	Vol of 2nd resuspension used	Resuspend volume	Vol. applied to filter	
	Y/N	fraction	mL	mL	fraction	mL	mL	mL	mL	mL	mL	mL	mL	Y/N
P-CB-040610	N				1	100	10	10	100	10				
							80			15				Y
										25				
										50				
MB					N/A	100	100							Y

KB 4/12/10

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 04/06/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:35 AM
EMSL Order: 271000042

EMSL Proj:
Analysis Date: 4/16/2010

Sampling Date: 4/6/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5μ	# Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-BW-040610 *271000042-0001*		870.00			Filter Damaged					
P-JB-040610 *271000042-0002*		884.00	0.0910		None Detected			0.0048	**<11.00**	**<0.0048**
P-NS-040610 *271000042-0003*		872.00	0.0910		None Detected			0.0049	**<11.00**	**<0.0049**
P-TA-040610 *271000042-0005*		865.00			Filter Damaged					
S-1309W-040610 *271000042-0006*		1806.00	0.0524		None Detected			0.0041	**<19.00**	**<0.0041**
S-1309E-040610 *271000042-0007*		1816.00	0.0524		None Detected			0.0040	**<19.00**	**<0.0040**
CB-Open-040610 *271000042-0008*			0.1310		None Detected				**<7.60**	

Analyst(s)

Ron Mahoney (5)

R. K. Mahoney
R. K. Mahoney, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-001**
Samples collected 04/06/10

Customer ID: EMRI78
Customer PO:
Received: 04/07/10 10:35 AM
EMSL Order: 271000042

EMSL Proj:
Analysis Date: 4/16/2010

Sampling Date: 4/6/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for Indirect Prep)

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5μ	# Structures ≥5μ	Analytical Sensitivity (S/cc)	Total Asbestos Concentration (S/mm^2)	Total Asbestos Concentration (S/cc)
P-CB-040610 *271000042-0004*		861.00	0.1300		None Detected			0.2100	**<480.00**	**<0.2100**

Analyst(s)

Ron Mahoney (1)

R. K. Mahoney, Laboratory Manager
or other approved signatory

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: **271000042-0001**
Client: **EMR, Inc.**
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 04/06/10

Order ID ***271000042***

Sample ID: P-BW-040610
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 μm < 5 μm	LENGTH ≥ 5 μm	WIDTH μm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

Damaged

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing ____

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: mm²
Filter Pore Size (micron): 0.45
GO Required: ____
Sample Volume (L): 870
GO Analyzed: ____

Grid Box # ____ Row ____ Column ____
Filter Accepted for Analysis: ☐ Yes ☐ No
If no, reason for rejection: ____

Analyst ____ Scope ____ Date ____

AHERA7.9.0

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000042-0002
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 04/06/10

Order ID 271000042

Sample ID: P-JB-040610
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C3	ND								F B C M		
	C5	ND								F B C M		
	C7	ND								F B C M		
	C9	ND								F B C M		
2	C3	ND								F B C M		
	C5	ND								F B C M		
	C7	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

RLm 4/16/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: mm²
Filter Pore Size (micron): 0.45
GO Required: 7
Sample Volume (L): 884
GO Analyzed: 7

Grid Box # 2710-EMR-13 Row P Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst R Lm Scope 27-1 Date 4/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000042-0003
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 04/06/10

Order ID 271000042

Sample ID: P-NS-040610
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	H7	ND								F B C M		
	H5	ND								F B C M		
	H3	ND								F B C M		
	H1	ND								F B C M		
2	G7	ND								F B C M		
	G5	ND								F B C M		
	G3	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

RJCm 4/16/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 872

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required: 7
GO Analyzed: 7

Grid Box # 2710-EMR-13 Row P Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst RJCm Scope 27-1 Date 4/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E (Indirect)

Lab ID: 271000042-0004
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 04/06/10

Order ID **271000042**

Sample ID: P-CB-040610
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
						Overloaded				F B C M		
										F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 860

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required:
GO Analyzed:

Grid Box # _____ Row ____ Column ____
Filter Accepted for Analysis: ☐ Yes ☐ No
If no, reason for rejection: _____

Analyst _____ Scope _____ Date _____

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E (Indirect)

Lab ID: 271000042-0004
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 04/06/10

Order ID 271000042

Sample ID: P-CB-040610
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

15 ml of 2nd resuspension filtered, estimate 1.5 ml stored

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	E1	ND								F B C M		
	E3	ND								F B C M		
	E5	ND								F B C M		
	E7	ND								F B C M		
	E9	ND								F B C M		
2	G10	ND								F B C M		
	G8	ND								F B C M		
	G6	ND								F B C M		
	G4	ND								F B C M		
	G2	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

R/Cm 4/16/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: mm²
Filter Pore Size (micron): 0.45
GO Required: 10
Sample Volume (L): 860
GO Analyzed: 10

Grid Box # 2710-EMR-13 Row P Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst R/Cm Scope 27-1 Date 4/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000042-0005
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 04/06/10

Order ID ***271000042***

Sample ID: P-TA-040610
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
						Damaged				F B C M		
(Total)												

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 865

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required:
GO Analyzed:

Grid Box # _____ Row ____ Column ____
Filter Accepted for Analysis: ☐ Yes ☐ No
If no, reason for rejection: _____

Analyst _____ Scope _____ Date _____

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000042-0006
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 04/06/10

Order ID ***271000042***

Sample ID: S-1309W-040610
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	C4	ND								F B C M		
	C6	ND								F B C M		
2	H6	ND								F B C M		
	H4	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)												

R Ilan 4/16/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: mm²
Filter Pore Size (micron): 0.45
GO Required: 4
Sample Volume (L): 1806
GO Analyzed:

Grid Box # 2710-EMR-13 Row Q Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst R Ilan Scope 27-1 Date 4/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000042-0007
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 04/06/10

Order ID 271000042

Sample ID: S-1309E-040610
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	H6	ND								F B C M		
	H4	ND								F B C M		
2	G5	ND								F B C M		
	G7	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

RLcm 4/16/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 1816

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: mm²
GO Required:
GO Analyzed:

Grid Box # 2710-EMR-13 Row Q Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst RLcm Scope 27-1 Date 4/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Lab ID: 271000042-0008
Client: EMR, Inc.
Address: 11 East Superior Street
Suite 260
Duluth, MN 55802

Project: 9329-001
Samples collected 04/06/10

Order ID 271000042

Sample ID: CB-OPEN-040610
Location:

Received: 07-Apr-10
TAT: 24 Hour

Results Due
Thursday, April 08, 2010
10:35 AM

Special Instructions

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	G-2	ND								F B C M		
	G-4	ND								F B C M		
	G-6	ND								F B C M		
	G-8	ND								F B C M		
	G-10	ND								F B C M		
2	H-10	ND								F B C M		
	H-8	ND								F B C M		
	H-6	ND								F B C M		
	H-4	ND								F B C M		
	H-2	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

RLM 4/16/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
TEM Voltage (kv): 100
Filter Size (mm): 25
Magnification (X): 19K
EFA (sq.mm): 385
Grid Opening Area: mm²
Filter Pore Size (micron): 0.45
GO Required: 10
Sample Volume (L): 0
GO Analyzed: 10

Grid Box # 27/0 - EMR - 13 Row Q Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst RLM Scope 27-1 Date 4/16/10

Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

QC

Lab ID: 271000042-0006
Client:
Address:

Project:

Order ID 271000042
Sample ID: S-1309W-090610
Location:

LB
Special Instructions

Received:
TAT:

Results Due

NSD = No Structures Detected Structure Types: { F = Fiber, B = Bundle, C = Cluster, M = Matrix }

Grid I.D.	G.O. I.D.	Structure Number	Non Asbestos	ED OBSERVATION Chrys	ED OBSERVATION Amphi	Sketch	LENGTH ≥ 0.5 µm < 5 µm	LENGTH ≥ 5 µm	WIDTH µm	Structure Type	SAED Negative Number	EDXA Chrys.,Amo., Etc.
1	E9	ND								F B C M		
	E7	ND								F B C M		
	E5	ND								F B C M		
	E3	ND								F B C M		
	E1	ND								F B C M		
2	C2	ND								F B C M		
	C4	ND								F B C M		
	C6	ND								F B C M		
	C8	ND								F B C M		
	C10	ND								F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
										F B C M		
(Total)		0	0									

RLM 4/14/10

Asbestos Fibers Present
- ☐ Chrysotile
- ☐ Anthophyllite
- ☐ Amosite
- ☐ Crocidolite
- ☐ Actinolite
- ☐ Tremolite

Nonasbestos Fibers Present
- ☐ (1) Gypsum
- ☐ (2) Glass
- ☐ (3) Cellulose
- ☐ (4) Organic Fibers
- ☐ (5) Fibers Containing

Filter Type: MCE
Filter Size (mm): 25
EFA (sq.mm): 385
Filter Pore Size (micron): 0.45
Sample Volume (L): 1806

TEM Voltage (kv): 100
Magnification (X): 19K
Grid Opening Area: 0.013
GO Required: 4
GO Analyzed: 4

Grid Box # 271D-EmA-13 Row Q Column
Filter Accepted for Analysis: ☒ Yes ☐ No
If no, reason for rejection:

Analyst RLM Scope 27-1 Date 4/14/10

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 271000051

EMSL ANALYTICAL, INC.
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 11 E. Superior Street, Suite #260	
City: Duluth / **State/Province: MN**	**Zip/Postal Code: 55802** / **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:** / **U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Mike Mckay / **Samplers Signature:** Mike McKay

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-TC-040710	Tony Cox-Group-5-MP-1311.63-1310.8 RKm	934	4-7-10-07:54-15:41
P-SH-040710	Sean Hunter-Machine Operator-MP-1311.63-1310.8	854	4-7-10-07:56-15:03
P-MO-040710	Mike O'Mary-Labor-MP-1311.63-1310.8	864	4-7-10-07:57-15:09
P-EH-040710	Eric Hofpar-Machine Operator-MP-1311.63-1310.8	856	4-7-10-07:58-15:06
P-JH-040710	John Hobbs-Section Man-MP-1311.63-1310.8	864	4-7-10-07:59-15:11
S-1310.6W040710	MP-1311.63-1310.8-Westend	2422	4-7-10-08:24-14:10
S-1310.7E040710	MP-1311.63-1310.8-Eastend	2422	4-7-10-08:26-14:12
BK-040710	BK-Opened	0	4-7-10

Client Sample # (s): Mike Mckay - **Total # of Samples:** 8

Relinquished (Client): Mike McKay **Date:** 4-8-10 **Time:** 13:17

Received (Lab): [signature] **Date:** 4/9/10 **Time:** 1317hr

Comments/Special Instructions:

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 4/7/2010

Customer ID: EMRI78
Customer PO:
Received: 04/08/10 1:17 PM
EMSL Order: 271000051

EMSL Proj:
Analysis Date: 4/21/2010

Sampling Date: 4/7/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ	# Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-TC-040710 *271000051-0001*		934.00	0.0910		None Detected			0.0045	**<11.00**	**<0.0045**
P-SH-040710 *271000051-0002*		854.00	0.0910		None Detected			0.0050	**<11.00**	**<0.0050**
P-MO-040710 *271000051-0003*		864.00			Overloaded					
P-EH-040710 *271000051-0004*		856.00			Filter Damaged					
P-JH-040710 *271000051-0005*		864.00			Overloaded					
S-1310.6W040710 *271000051-0006*		2422.00	0.0520		None Detected			0.0031	**<19.00**	**<0.0031**
S-1310.7E040710 *271000051-0007*		2422.00	0.0520		None Detected			0.0031	**<19.00**	**<0.0031**
BK-040710 *271000051-0008*			0.1300		None Detected				**<7.70**	

Analyst(s)

Ron Mahoney (5)

R. K. Mahoney, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. This lab is only responsible for data reported in structures/mm^2. This report may not be reproduced, except in full, without written approval by EMSL. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the samples reported above. Quality control data (including 95% confidence limits and laboratory and analysts' accuracy and precision) is available upon request. As per 40 CFR 763, the initial screening test may not be applied to samples with collected volumes of <1200 liters. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. 107 West 4th Street, LibbyMT NVLAP Lab Code 200745-0

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 4/7/2010

Customer ID: EMRI78
Customer PO:
Received: 04/08/10 1:17 PM
EMSL Order: 271000051

EMSL Proj:
Analysis Date: 4/21/2010

Sampling Date: 4/7/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for Indirect Prep)

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5µ < 5µ	# Structures ≥5µ	Analytical Sensitivity (S/cc)	Total Asbestos Concentration (S/mm^2)	Total Asbestos Concentration (S/cc)
P-MO-040710 *271000051-0003*		864.00	0.1300		None Detected			0.0130	**<29.00**	**<0.0130**
P-JH-040710 *271000051-0005*		864.00	0.1300		None Detected			0.0064	**<14.00**	**<0.0064**

Analyst(s)

Ron Mahoney (2)

R. K. Mahoney, Laboratory Manager
or other approved signatory

EMSL27 INDIRECT PREPARATION RECORD

EMSL Analytical Inc., Libby, MT

Order ID: 27100051

Date: 4/15/10

Circle One: (TEM Air) TEM Dust TEM Wipes PCM

EFA: 360 mm²

Prepared By: KB

Sample #	Loose Material	Ashed Samples Resuspension with Ashing			Non-Ashed Samples Resuspension without Ashing			Serial Dilution Filtration 2nd resuspension			Serial Dilution Filtration 3rd resuspension			Prepared for Analysis
		Filter Fraction	Resuspended volume	Vol. applied to filter	Filter Fraction	Resuspended volume	Vol. applied to filter	Vol. of 1st resuspension used	Resuspend volume	Vol. applied to filter	Vol of 2nd resuspension used	Resuspend volume	Vol. applied to filter	
	Y/N	fraction	mL	mL	fraction	mL	mL	mL	mL	mL	mL	mL	mL	Y/N
P-MO-040710	Y				1	100	10							
							15							
							25							
							50							Y
PJH 040910	Y				1	100	10							Y
							15							
							25							
							50							
MB					—	100	100							Y

KB 4/15/10

Locally Controlled Document
Confidential Business Information/Property of EMSL Analytical, Inc

001562

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 271000052

EMSL ANALYTICAL, INC
107 W. FOURTH ST.
LIBBY, MT 59923
PHONE: (406) 293-9066
FAX: (406) 293-7016

Company : EMR, Inc	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 11 E. Superior Street, Suite #260	*Third Party Billing requires written authorization from third party*
City: Duluth / **State/Province: MN**	**Zip/Postal Code: 55802** / **Country: USA**
Report To (Name): Scott Carney	**Fax #: (218) 625-2337**
Telephone #: (218) 625-2332 x 303	**Email Address: carney@emr-inc.com**
Project Name/Number: 9329-001	
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:** / **U.S. State Samples Taken: Montana**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hours/6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Mike Mckay / **Samplers Signature:** Mike McKay

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
P-JH-040810 ✓	John Hobbs-Section Man-MP-1308.92-1308.49 R/Man	744	4-8-10-08:01-14:13
P-RH-040810 ✓	Ron Hayes-Section Man-MP-1308.92-1308.49	740	4-8-10-08:04-14:14
P-CP-040810 ✓	Carson Poore-Trackman-MP-1308.92-1308.49	742	4-8-10-08:06-14:17
P-RT-040810 ✓	Ryan Tucker-Welder-MP-1308.92-1308.49	744	4-8-10-08:07-14:19
P-BG-040810 ✓	Brian Gartman-Group-5-MP-1308.92-1308.49	732	4-8-10-08:10-14:16
S-1308.70W040810 ✓	MP-1308.92-1308.49-Westend	3080	4-8-10-08:37-15:57
S-1308.71E040810 ✓	MP-1308.92-1308.49-Eastend	3080	4-8-10-08:39-15:59
BK-040810 ✓	BK-Opened	0	4-8-10

Client Sample # (s): Mike Mckay - **Total # of Samples:** 8

Relinquished (Client): Mike McKay **Date:** 4-9-10 **Time:** 11:54

Received (Lab): R.K. Mahoney **Date:** 4/9/10 **Time:** 1154

Comments/Special Instructions:

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332

Project: **9329-001**
Samples collected 4/8/2010

Customer ID: EMRI78
Customer PO:
Received: 04/09/10 11:54 AM
EMSL Order: 271000052

EMSL Proj:
Analysis Date: 4/22/2010

Sampling Date: 4/8/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm^2)	Non Asb	Asbestos Type(s)	# Structures ≥ 0.5μ < 5μ	# Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm^2)	Asbestos Concentration (S/cc)
P-JH-040810 *271000052-0001*		744.00	0.1040		None Detected			0.0050	**<9.60**	**<0.0050**
P-RH-040810 *271000052-0002*		740.00	0.1170		None Detected			0.0044	**<8.50**	**<0.0044**
P-CP-040810 *271000052-0003*		742.00	0.1040		None Detected			0.0050	**<9.60**	**<0.0050**
P-RT-040810 *271000052-0004*		744.00			Overloaded					
P-BG-040810 *271000052-0005*		732.00	0.1170		None Detected			0.0045	**<8.50**	**<0.0045**
S-1308.70W040810 *271000052-0006*		3080.00	0.0520		None Detected			0.0024	**<19.00**	**<0.0024**
S-1308.71E040810 *271000052-0007*		3080.00	0.0520		None Detected			0.0024	**<19.00**	**<0.0024**
BK-040810 *271000052-0008*			0.1300		None Detected				**<7.70**	

Analyst(s)

Roy Pescador (7)

R. K. Mahoney, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc.
107 West 4th Street, Libby, MT 59923
Phone: (406) 293-9066 Fax: Email: mobileasbestoslab@emsl.com

Attn: **Scott Carney**
EMR, Inc.
11 East Superior Street
Suite 260
Duluth, MN 55802

Fax: (218) 625-2337 Phone: (218) 625-2332
Project: **9329-001**
Samples collected 4/8/2010

Customer ID: EMRI78
Customer PO:
Received: 04/09/10 11:54 AM
EMSL Order: 271000052

EMSL Proj:
Analysis Date: 4/22/2010

Sampling Date: 4/8/2010

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by AHERA -EPA 40 CFR Part 763 Appendix A to Subpart E (Modified for Indirect Prep)

Sample	Location	*Volume (Liters)*	*Area Analyzed (mm²)*	*Non Asb*	*Asbestos Type(s)*	*# Structures* ≥ 0.5µ < 5µ	*# Structures* ≥5µ	*Analytical Sensitivity (S/cc)*	*Total Asbestos Concentration (S/mm²)*	*Total Asbestos Concentration (S/cc)*
P-RT-040810 *271000052-0004*		744.00	0.1300		None Detected			0.0150	**<29.00**	**<0.0150**

Analyst(s)

Roy Pescador (1)

R. K. Mahoney, Laboratory Manager
or other approved signatory